Andrew Bruno

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Principal Engineer | Forward Deployed Engineer | Solutions Architect

PROFESSIONAL SUMMARY

I have expertise across software engineering, cloud, AI and architecture, and turn complex customer requirements into production-ready software. I contribute to technical direction and strategy as part of a wider team. I am looking for a role where I can use these skills to solve problems that make a genuine difference.

- **Deep engineering experience** - greenfield platforms, modernisation, data migration, monolith-to-microservices transformation, complex integrations and engineering leadership.
- **Domains** - financial services, property, retail, franchise, superannuation, healthcare, government, telecommunications, email security and identity, with systems delivered across Australia, Asia, Europe and the USA.
- **Polyglot and technology-agnostic** - I go where the problem is: front-end, full-stack, microservices, APIs, data, event-driven systems, distributed systems and cloud.
- **AI-native engineering workflow** - hands-on from prototype through production, using multiple models and agents for implementation, testing and independent verification.
- **Equally effective across contexts** - building independently, embedded with customers or engineering teams, leading and mentoring distributed teams across countries and time zones, or operating with executives.

CAREER SNAPSHOT

Principal Data Migration & Integration Engineer | AGPAL & QIP (via Vacodi)	Oct 2025 - Present
Principal Consultant, Forward Deployed Engineer | Vacodi	Sep 2025 - Present
Head of Engineering Standards, Group Architecture | PEXA	Apr 2024 - Aug 2025
Staff Engineer, International, Group Engineering | PEXA	Jan 2022 - Apr 2024
Senior Software Engineer, Plus Marketplace & Mobile | PEXA	Apr 2019 - Dec 2021
Developer, Full Stack | Insignia Financial (formerly IOOF Superannuation)	Nov 2017 - Apr 2019
Founding Engineer & Shareholder | ManyMe.com (remote, Boston USA)	Jul 2016 - Nov 2017
Founding Engineer & Shareholder, later GM Operations | Synetek Systems	Nov 2005 - Jul 2016

CORE SKILLS AND TECHNOLOGIES

Agentic and AI-assisted Engineering: Claude Code Max, OpenAI Codex, Cursor, Copilot, Kiro, Antigravity, MCPs
Architecture: Microservices, event-driven, CQRS, event sourcing, API-first, REST, domain-driven design (DDD)
Cloud and Infrastructure: AWS, Azure, Terraform, Bicep, Kubernetes, Docker, GitHub Actions, CI/CD, Serverless (Lambda)
Data: PostgreSQL, SQL Server, MySQL, Oracle, MongoDB, DynamoDB, Cassandra, Redis, Kafka, SQS, SNS, Kinesis, dbt
Platforms and Integration: Microsoft Dynamics 365 CRM, Wiise (Dynamics 365 Business Central), Auth0, Kong
Languages and Runtimes: Java, Kotlin, Go, TypeScript, JavaScript, Node.js, Python, C# / .NET, SQL
Frontend: React, React Native, Redux, HTML5, CSS3

PROFESSIONAL EXPERIENCE

Principal Data Migration and Integration Engineer

AGPAL & QIP (via Vacodi) | Brisbane, Australia | Oct 2025 - Present

Multi-vendor digital transformation of legacy customer, financial and accreditation platforms, working directly with business stakeholders and vendors. Ran multiple AI agents daily across integration analysis, data migration, documentation-as-code, software development, testing and verification.

- Integrated Microsoft Dynamics 365 CRM, Wiise (Dynamics 365 Business Central), Armature Fabric and Auth0.
- Migrated 28 years of historical data covering tens of thousands of organisations, contacts and accreditations into Dynamics 365 using medallion-architecture data pipelines with dbt and Python.
- Applied the strangler pattern to the legacy .NET monolith, deployed to production.
- Introduced a Data Migration Portal that replaced spreadsheets with a live view for SMEs and executives of cleansing, transformation rules, exclusions and migration status, and an Armature Fabric simulator mocking the vendor's UI and 143 API endpoints, running non-production integration for hundreds of dollars a month, not six figures a year.

Technologies: TypeScript, Node.js, React, Python, .NET, Claude Code, OpenAI Codex, GitHub Copilot, Microsoft Dynamics 365 CRM, Wiise (Dynamics 365 Business Central), Auth0, Microsoft Entra ID, PostgreSQL, SQL Server, dbt, Azure, Azure Bicep

Principal Consultant and Forward Deployed Engineer
Vacodi | Brisbane and Melbourne, Australia | Sep 2025 - Present

Independent consultancy delivering full-stack bespoke application development and digital channels, platform modernisation, systems integration and data engineering - using AI and agentic engineering to compress delivery.

- Clients: AGPAL, QIP, FS Spagnolo & Co Accountants, Rebul Packaging, Linda Jean Acting.

Technologies: Anthropic Claude Code Max, OpenAI Codex, WordPress, WooCommerce, Wix, Supabase, AWS, Vercel, DNS and email infrastructure

Head of Engineering Standards
PEXA, Group Architecture, Platform and Engineering | Melbourne, Australia | Apr 2024 - Aug 2025

Led the uplift of engineering standards, developer experience and platform practices across PEXA, reaching engineers in Australia, India, the Philippines and the United Kingdom.

- Established and evolved engineering standards and ways of working across infrastructure, integration, functional and quality domains, leading a team of Principal Engineers embedded in delivery squads.
- Led the Kong Enterprise to Kong Konnect migration across 20+ squads in Australia and the UK, enabling around 1,500 API endpoints. Launched an internal AI/MCP service enabling engineers to query Kong standards, configuration and platform guidance.
- Launched the Voice of Engineers community and a Developer Experience uplift, rolling out engineering metrics and insights into flow, bottlenecks and team health.
- Drove automation and AI-assisted development (GitHub Copilot, Amazon Q Developer / Kiro, Dependabot) and evergreen dependency practices across hundreds of repositories.
- Introduced AI spec-driven development, writing domain-driven design specifications from which Kiro generated microservices.
- Oversaw evaluation, selection and rollout of engineering platforms including Harness and getDX, managing vendor relationships, commercial negotiations and renewals.
- Represented PEXA externally in the AU/NZ AWS Alliance.

Technologies: Kotlin, Go, Python, Node.js, JavaScript, TypeScript, GitHub Copilot, Amazon Q Developer / Kiro, Kong Konnect, Docker, GitHub Actions, SonarQube, Harness, getDX, IntelliJ, VS Code

Staff Engineer, International
PEXA, Group Engineering | Melbourne, Australia | Jan 2022 - Apr 2024

Hybrid role combining hands-on Staff Engineer work with Engineering Manager accountability across international platform teams.

- Only Staff Engineer on the greenfield UK Remortgage Platform, delivering an API-first, event-driven microservices architecture.
- Advisor to International Platform Architecture, the Platform Leadership Team and the Joint Architecture Group, contributing to architecture, solution design and code reviews across teams.
- People leader with a 93% engagement score; launched and led EMBARK, the early-career program transitioning final-year students into graduate engineers.
- Led adoption of GitHub Copilot and AI-assisted development, and rolled out 100% Dependabot coverage across the UK codebase.
- UK rotational incident manager (PagerDuty Level 3) under a build it, ship it, run it model, building custom Node.js tooling to analyse contribution and review activity and surface bottlenecks across remote global teams.

Technologies: Kotlin, Spring Boot, Python, TypeScript, React, React Native, GitHub Copilot, Kong, Kafka, AWS, Terraform, Kubernetes, Docker, SonarQube, Dependabot

Senior Software Engineer
PEXA, Plus Marketplace and Consumer Key Mobile App | Melbourne, Australia | Apr 2019 - Dec 2021

- Built and evolved a greenfield microservices architecture with single-page application (SPA) front end supporting a marketplace for purchasing property and document certificates used by eConveyancers and consumers at national scale.
- Integrated with Equifax, Citec and state land title registries including SERV, NSW LRS and Titles Queensland.
- Rolled out a build it, ship it, run it model, owning services end-to-end including CI/CD, security, production support and data migrations, at around 75 production releases per year.
- Enhanced the consumer mobile application PEXA Key, integrating with Salesforce to push deal updates and status notifications to customers.

Technologies: Go, Java, Kotlin, React, Salesforce, Microsoft Dynamics, AWS (SQS, Kinesis, Lambda, DynamoDB, API Gateway, EKS, Redis, PostgreSQL RDS), Terraform, Splunk, AppDynamics, SignalFX

Developer, Full Stack
Insignia Financial (formerly IOOF) | Melbourne, Australia | Nov 2017 - Apr 2019

- Full-stack engineer on customer-facing superannuation, insurance and wealth management platforms in a highly regulated environment, measuring delivery velocity through to production; i.e. DONE = LIVE.
- Delivered member features enabling customers to view balances and manage share portfolio investments.
- Built microservice-based systems with RESTful APIs and React front ends within a CI/CD DevOps model.

Technologies: Kotlin, Java, JavaScript, React, Redux, Kafka, MongoDB, MySQL

Founding Engineer & Shareholder
ManyMe.com | Remote, Boston USA | Jul 2016 - Nov 2017

- One of two founding engineers, designing and building the greenfield cloud-native platform from inception through launch using serverless and event-driven architectures.
- 10 years on, the platform continues to be operational, protecting users' identity globally.

Technologies: Go, Node.js, JavaScript, HTML5, CSS3, AWS (Lambda, SES, SNS, S3, Cognito, EC2, RDS MySQL, DynamoDB)

Founding Engineer & Shareholder, Solutions Architect, later GM Operations and Acting CEO
Synetek Systems | Melbourne, Australia | Nov 2005 - Jul 2016

- Took two SaaS products from zero to exit, growing the business to around 20 people with customers worldwide.
- LeaseEagle: property lease and franchise management platform managing 30,000+ leases across 50+ countries. Presented at and won a 2014 Australian iAward. Acquired by MRI Software.
- MailRevive: cloud email security, archiving and recovery platform, scaling to 100,000 mailboxes and millions of messages a day. Acquired by Reflexion Networks / Sophos, where I travelled to Boston on secondment to hand over the infrastructure, codebase and operations to their engineering, support, network and database teams.
- Acting CEO for six months in 2014-15, covering day-to-day operations, shareholder and board engagement, budgeting and cash flow, and technology roadmap.

Technologies: Java, JEE, XSLT, RESTful APIs, SOA, Axis Web Services, Lucene, SAML SSO (Okta), Microsoft Exchange Web Services, ERP Integrations (SAP, Dynamics, FinanceOne), Cassandra, Microsoft SQL Server, Akamai CDN, VMware, AWS, SVN and Git

EARLIER CAREER

Senior Consultant | Object Consulting - InfoMedix e-health | Aug 2004 - Oct 2005

Software Engineer, Team Leader | Acumentum | Feb 2002 - Jul 2004

Team Leader, Senior GPRS Systems Engineer | Ericsson Australia, Germany, Hong Kong, Taiwan | Feb 1999 - Apr 2001

EDUCATION AND CERTIFICATIONS

- Bachelor of Computer Science (Honours H1), La Trobe University
- Bachelor of Electronics Engineering (Honours H1), La Trobe University
- AWS Certified Solutions Architect - Associate (issued Jun 2021)
- AWS Certified Cloud Practitioner (issued May 2021)

ADDITIONAL INFORMATION

- Right to work: Australian born, Italian citizen via parents. Residence in both Brisbane and Melbourne.
- Languages: English, Italian.
- Past president of the Australian Java User Group.
- Small business: a decade as company director of Zia Teresa Restaurant in Melbourne, later its business and technology advisor. Owned its technology platforms (Xero, point of sale, Google Workspace, Wix) and led the sale and full systems handover in February 2024.
- Open source: jASEN, a Java-based anti-spam email engine | Xero Backup.
- Enjoys home projects, renovations and classic cars.