Cole Morton

Senior Software Engineer | AI-Augmented Development | Full-Stack Architecture

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💼 [LinkedIn Profile](#)   🌐 [Personal Website](#)   💻 [GitHub Portfolio](#)

PROFESSIONAL SUMMARY

Senior Software Engineer with 11+ years building production systems across fintech, healthtech, and digital commerce. Expert in AI-augmented development practices, having architected and deployed enterprise-grade content systems processing 18+ financial APIs with institutional-quality outputs. Recently relocated to Brisbane from Berlin, bringing global perspective and modern development approaches to Australia's thriving tech ecosystem.

Core Competencies

- Architected production systems handling 100+ institutional-grade financial analyses - Pioneer in AI-orchestration development with 21-command Claude integration system - Full-stack expertise across React, TypeScript, Node.js, Python ecosystems - Executive-level experience: 5 years autonomous technical decision-making - Active GitHub contributor (daily 1+ years): 28,500+ lines of maintained code

TECHNICAL SKILLS

LANGUAGES & FRAMEWORKS

TypeScript • **JavaScript (ES6+)** • **Python** • **React 19** • Node.js • Astro • GraphQL • .NET

AI & AUTOMATION

Claude AI orchestration • **OpenRouter integration** • Cursor IDE • GitHub Copilot

CLOUD & INFRASTRUCTURE

AWS • Netlify • Docker • CI/CD pipelines • GitHub Actions

DATA & APIS

RESTful APIs • Contract-driven architecture • **18+ financial API integrations**

METHODOLOGIES

Agile/Scrum • TDD • DRY, SOLID, KISS • **Fail-fast principles**

PROFESSIONAL EXPERIENCE

Founder & Principal Engineer

Self-Directed Software Development **October 2020 - Present** *Berlin, Germany →*
Brisbane, Australia

Led executive-level technical initiatives building production-grade financial analysis systems,
demonstrating enterprise architecture capabilities typically found in CTO/Principal Engineer
roles.

Key Achievements:

- **Sensylate Platform:** Architected GenContentOps system with sophisticated 21-command AI orchestration, processing financial data into institutional-grade content with 9.2/10 quality metrics

- **Production Scale:** Generated 100+ fundamental analysis reports meeting institutional standards through automated DASV (Discovery-Analyze-Synthesize-Validate) framework

- **Technical Leadership:** Made architectural decisions impacting 28,500+ lines of production code across Python and TypeScript, maintaining daily GitHub activity

- **API Integration:** Designed contract-driven data pipeline integrating 18+ financial APIs with intelligent caching and comprehensive error handling

- **Quantitative Systems:** Built comprehensive trading analysis toolkit with backtesting, portfolio optimization, and risk management capabilities

Technologies: Python, React 19, TypeScript, Astro 5.7.8, Claude AI, TailwindCSS, Plotly

Senior Software Engineer

Oetker Digital GmbH **July 2018 - October 2020** *Berlin, Germany*

Delivered multiple high-impact projects in fast-paced product environment, adapting quickly to diverse technology stacks and business requirements.

Key Achievements:

- **Frontend Architecture:** Led frontend architecture decisions for multi-brand e-commerce platform serving millions of users

- **GraphQL Migration:** Implemented GraphQL migration reducing API calls by 60% and improving page load times

- **Technical Mentorship:** Mentored junior developers in React best practices and modern JavaScript patterns

- **Feature Delivery:** Delivered 15+ production features meeting aggressive deadlines without compromising quality

Technologies: React, Vue.js, TypeScript, GraphQL, Node.js, AWS, Docker

Senior Frontend Developer

Panorama Berlin **March 2018 - June 2018** *Berlin, Germany*

Led development of innovative mobile-first Progressive Web Application for major fashion events.

Key Achievements:

- **PWA Architecture:** Architected offline-capable PWA with QR scanning, enhancing attendee experience for 5,000+ users

- **Service Workers:** Implemented service workers achieving 100% offline functionality for critical features

- **Open Source Contribution:** Open-sourced Peach UI component library, adopted by 3 internal teams

Technologies: React, Apollo GraphQL, Service Workers, PWA, Mobile-first design

Senior Software Developer

CrossLend GmbH (Fintech) July 2015 - June 2016 *Berlin/Luxembourg*

Contributed to core lending platform handling €50M+ in transactions with focus on reliability and performance.

Key Achievements:

- **Real-time Trading Dashboard:** Developed real-time trading dashboard processing 1,000+ transactions per minute

- **Test Coverage:** Implemented comprehensive test suite achieving 95% code coverage

- **CI/CD Optimization:** Reduced deployment time by 70% through CI/CD pipeline optimization

Technologies: React, Redux, Node.js, PostgreSQL, TDD, CI/CD

Software Developer

Charm Health January 2012 - April 2013 *Brisbane, Australia*

Built enterprise healthcare solution for Chris O'Brien Lifehouse at Royal Prince Alfred Hospital, Sydney.

Key Achievements:

- **Patient Management:** Developed patient management modules serving 10,000+ cancer patients

- **Real-time Synchronization:** Implemented real-time data synchronization using SignalR

- **System Reliability:** Achieved 99.9% uptime for critical healthcare systems

Technologies: .NET, Silverlight, WCF, SignalR, Entity Framework, SQL Server

Software Developer

ISAC New Zealand Ltd **October 2009 - January 2012** *Auckland, New Zealand*

Developed commercial freight tracking system for DHL Global Freight and internal time management tools.

Key Achievements:

- **Door2More System:** Built Door2More freight tracking system processing 50,000+ shipments monthly

- **Process Automation:** Reduced manual tracking time by 80% through automation

- **Scalable Architecture:** Designed scalable architecture supporting international expansion

Technologies: ASP.NET MVC, C#, SQL Server, Entity Framework, jQuery

ENTREPRENEURIAL VENTURES

Taupemist Cooperative | Founder

December 2017 - August 2020 | Global Founded non-profit blockchain cooperative exploring decentralized economy participation, demonstrating early adoption of emerging technologies and community leadership.

EDUCATION

Diploma in Software Development Computer Power Institute | 2008 - 2009 | Auckland, New Zealand

ADDITIONAL INFORMATION

- **Open Source:** Active GitHub contributor with daily commits over past year - **Languages:** English (Native), German (Working Proficiency), Esperanto (Limited) - **Work Rights:** Full Australian work rights (New Zealand citizen) - **Location:** Brisbane-based, open to hybrid arrangements