

# Cole Morton

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

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## 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**

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# PROFESSIONAL EXPERIENCE

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## 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

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**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:** - Led frontend architecture decisions for multi-brand e-commerce platform serving millions of users - Implemented GraphQL migration reducing API calls by 60% and improving page load times - Mentored junior developers in React best practices and modern JavaScript patterns - 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:** - Architected offline-capable PWA with QR scanning, enhancing attendee experience for 5,000+ users - Implemented service workers achieving 100% offline functionality for critical features - 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:** - Developed real-time trading dashboard processing 1,000+ transactions per minute - Implemented comprehensive test suite achieving 95% code coverage - 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:** - Developed patient management modules serving 10,000+ cancer patients - Implemented real-time data synchronization using SignalR - 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:** - Built Door2More freight tracking system processing 50,000+ shipments monthly - Reduced manual tracking time by 80% through automation - Designed scalable architecture supporting international expansion

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

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## **ENTREPRENEURIAL VENTURES**

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### **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.

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## **EDUCATION**

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### **Diploma in Software Development**

Computer Power Institute | 2008 - 2009 | Auckland, New Zealand

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## ADDITIONAL INFORMATION

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- **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