Cole Morton

Senior Software Engineer
AI-Augmented Development Full-Stack Architecture

📍 Brisbane QLD 4066 📞 0415 583 331 ✉️ cole.morton@hotmail.com

💼 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

Current Technologies (2020-Present)

- Python 3.10
- Astro 5.12+
- React 19
- TailwindCSS 4
- Pandas 2.0+
- NumPy
- Plotly
- Pytest
- Jinja2
- Poetry

Frontend Technologies

- Astro 5.12+
- React 19
- TypeScript
- TailwindCSS 4
- Vue.js
- Angular.js
- React Native
- JavaScript (ES6+)
- HTML5
- CSS3
- SASS
- styled-components
- Redux
- Redux-Saga
- Storybook
- PWA

Backend Technologies

- Python 3.10
- Node.js
- .NET Stack
- Express.js
- C#
- VB.NET
- Ruby on Rails
- Pandas 2.0+
- NumPy
- Plotly
- Jinja2
- RESTful APIs
- WCF
- SignalR

AI & Modern Technologies

- Claude AI orchestration
- Open Router
- AI-driven content generation
- AI-augmented development
- Quantitative analysis
- Financial modeling
- Cursor IDE
- Algorithmic trading systems

Domain Expertise

- Finance & Trading Systems
- Data Processing & Visualization
- AI-driven content generation
- Modern Web Applications
- Full-stack architecture
- Interactive dashboards
- Quantitative trading platforms

Databases & DevOps

- SQL Server
- PostgreSQL
- Entity Framework
- LINQ
- MongoDB
- Git
- GitHub
- GitLab
- Poetry
- npm
- Yarn
- Webpack
- Jenkins
- VS Code

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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

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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

Founder

Taupemist Cooperative

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 Christchurch, New Zealand

Key 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

LinkedIn Skill Endorsements

Professional Validation: 23 skills with peer endorsements across 11+ years commercial experience spanning three countries. These endorsements represent validation from colleagues, clients, and industry professionals who have directly observed my technical capabilities in production environments.

Most Endorsed Skills

- JavaScript (19 endorsements)
- ASP.NET (12 endorsements)
- C# (11 endorsements)
- LINQ (10 endorsements)
- Entity Framework (9 endorsements)
- .NET (9 endorsements)
- SQL Server (8 endorsements)
- Agile Methodologies (7 endorsements)
- Web Development (6 endorsements)
- jQuery (5 endorsements)
- HTML (5 endorsements)
- CSS (5 endorsements)