

# 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

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## Languages & Frameworks

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Node.js

Astro

GraphQL

.NET

## AI & Automation

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Cursor IDE

GitHub Copilot

## Cloud & Infrastructure

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AWS

Netlify

Docker

CI/CD pipelines

GitHub Actions

## Data & APIs

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RESTful APIs

Contract-driven architecture

## Methodologies

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Agile/Scrum

TDD

DRY, SOLID, KISS

# 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

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## 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

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

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## 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

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

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## 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

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

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## 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

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**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

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**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.

## Education

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### Diploma in Software Development

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

## 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