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ALBERT BOEHM

WORK EXPERIENCE

Software Engineer **09/21 – present**
Bloomberg, Financial Software

- Speeding up trade processing pipeline of Bloomberg AIM OMS to enable onboarding of buy-side clients operating at high frequencies and large volumes
- Converting legacy C++03/Fortran monolith into modern C++17/Python SOA system
- Developed a generic Docker system testing suite run in CI
- Established a working group integrating SWE best practices
- Providing technical mentorship for graduates joining as full-time employees
- Exceeded expectations in all formal performance reviews
- Regular involvement in corporate volunteering program
- Started a technical book club (e.g., "C++ Templates: The Complete Guide")

Software Engineering Intern **06/20 – 10/20**
Bloomberg, Financial Software

- Implemented a trade notification microservice
- Presented new trade processing system architecture to audience of 150, including senior management
- Winner of the annual week-long Engineering Intern Puzzle Challenge (60 participants)
- Utilized: Python, C/C++, Apache Kafka

Full-Stack Engineer **05/19 – 12/19**
storytile (Startup), Media

- Enabled scalability of product by reducing algorithm memory complexity from linear to constant
- Utilized: PHP, JavaScript, HTML/CSS, SQL

EDUCATION

BSc Computing Science **09/18 – 06/21**
University of Aberdeen, UK

- **Overall GPA**: 3.96/4
- **Thesis**: Deep Reinforcement Learning for Elevator Scheduling
- **Awards**: BCS Prize for Best Level 2 Computing Science Student, CGI Prize for Best Level 3 Computing Science Student
- **Teaching Assistant**: Algorithmic Problem Solving
- **Relevant Coursework**: Distributed Systems, Operating Systems, Algorithmic Problem Solving, Computer Architecture, Languages and Computability, Software Engineering

SKILLS

Programming languages: C++, Python, Rust
SDLC: Agile, System Design, Static Analysis, Testing, CI/CD, Observability

Spoken languages: English (full professional proficiency), German (native proficiency)

PERSONAL PROJECTS

Portfolio Backtesting Tool

- Created a Web App to compare the historic performance of multi-asset portfolios
- Plugin support for simple trading strategies (e.g., moving average crossover)
- Utilized: Python (Flask), JavaScript, pandas, SQLite, plotly.js

CHIP-8 Emulator

- Implemented an interpreter for the CHIP-8 programming language with video output
- Utilized: C++, SDL2, CMake

Relevant Online Course
Advanced Programming Techniques for Robust and Efficient Computing (C++), University of Victoria