

ALBERT BOEHM

EDUCATION	BSc Computing Science <i>University of Aberdeen, UK</i> <ul style="list-style-type: none">• Overall GPA: 3.96• 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, Linear Algebra I/II, Operating Systems, Software Engineering, Algorithmic Problem Solving, Calculus I/II, Data Management	Expected 06/21
WORK EXPERIENCE	Software Engineering Intern <i>Bloomberg, Financial Software</i> <ul style="list-style-type: none">• Utilized Apache Kafka to develop an asynchronous messaging architecture for an order management system• Implemented a trade notification microservice in Python• Participated in organizational development projects• Leveraged knowledge in Python, C/C++, Fortran, Protobuf Full-Stack Engineer <i>storytile (Startup), Media</i> <ul style="list-style-type: none">• Enabled scalability of core product by reducing algorithm memory complexity from linear to constant• Optimized processing of statistical data by designing a data pipeline• Leveraged knowledge in PHP, JavaScript, Docker, PostgreSQL, git Research Intern <i>BMW Group, Automotive</i> <ul style="list-style-type: none">• Reduced cross-component communication in Electric Motor Software Architecture Model by 47% using graphs and a genetic algorithm• Leveraged knowledge in Python, Neo4j, NumPy, Machine Learning	06/20 – 10/20 05/19 – 12/19 04/18 – 10/18
SKILLS	Proficient: Python, C++, Java Familiar: JavaScript, C, PHP Tools: git, Docker, SQL, UNIX Spoken languages: English (Full Professional Proficiency), German (Native Proficiency)	
PROJECTS	Portfolio Backtesting Tool <ul style="list-style-type: none">• Created a Web App to visualize and compare the historic performance of portfolios• Calculation of key performance and risk metrics (e.g. CAGR, Sharpe/Sortino Ratio)• Support of rebalancing strategies and regular contributions• Utilized: Python (Flask), JavaScript, pandas, SQLite, plotly.js Ray Tracer <ul style="list-style-type: none">• Generates random scenes of spheres with Lambertian, metal, and dielectric surfaces• Supports free moving camera and anti-aliasing• Utilized: C++, Make CHIP-8 Emulator <ul style="list-style-type: none">• Implemented an interpreter for the CHIP-8 programming language with video output• Plays Pong, Space Invaders, Tetris, and Pac-Man• Utilized: C++, SDL2, Make Personal Website – albertboehm.com	