Marcus Bolton

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EDUCATION

University of Washington   Sep. 2020 – Jun. 2024
Bachelor of Science in Computer Science   *Seattle, WA*
- GPA: 3.98/4.00
- Coursework:

Distributed Systems   Advanced Databases   Data Structures   Operating Systems   Software Design

Systems Programming   Artificial Intelligence   Compilers   Linear Algebra   Multivariable Calculus

EXPERIENCE

Software Engineer Intern   Jun. 2023 – Present
F5 Networks – Distributed Cloud   *Seattle, WA*
- Developed a suggest API using Go and AWS, simplifying the cloud configuration experience for clients
- Conducted comprehensive testing and debugging, ensuring the reliability and robustness of the cloud configuration suggest API
- Engineered a monitoring system that integrated with AWS and Azure drivers, providing metrics on resource allocation and consumption

Coding Curriculum Developer   Dec. 2022 – Jun. 2023
Lavner Education   *Seattle, WA*
- Developed programming projects and associated tutorials taught to 1,000+ students annually
- Built curricula for courses in Java, C++, Python, and web development
- Overhauled curricula and programming projects from previous years, adding support for new language standards and features

PROJECTS

Resume X-Ray | *Node.js, React, OpenAI/ChatGPT, AWS (API Gateway, Lambda, Cognito)*   Apr. 2023 – Present
- Developed a full-stack web application using Node.js and AWS services for backend
- Designed algorithms and associated APIs to parse resumes into their different sections and components, despite unique formatting and file types
- Utilized AI technology and collected data to provide insight into 10+ categories of the user's resume content
- Implemented a scalable frontend with React, including an interactive report on the user's resume data

Snake AI | *Java, AWT*   Jun. 2022 – Sep. 2022
- Leveraged Java and AWT to recreate the classic game "Snake"
- Integrated AI strategies including reactive behavior, pathfinding, and simple neural networks to support multiplayer functionality
- Designed a flexible API which allowed smooth interaction between AI implementations and the game environment

FaceMatch | *Swift, SwiftUI, AWS (Lambda, Rekognition, DynamoDB, S3)*   Jun. 2021 – Feb. 2022
- Developed an application which enabled users to find which celebrity (or person from gallery) they most resemble
- Architected a robust backend infrastructure using AWS, which reduced latency and lowered operational expenses
- Released to the iOS App Store and downloaded 10k+ times in the 7 months it was available

TECHNICAL SKILLS

Programming Languages:
- **Proficient**: Java, C, C++, Python, JavaScript, Go, SQL, HTML/CSS, Swift, SwiftUI
- **Familiar**: OCaml, Racket, Kotlin

Frameworks/Libraries: React, Node.js, Express, gRPC, JUnit, Spring

Developer Tools & Other Technologies: Git, Docker, Kubernetes, ChatGPT, Linux, Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP), Protobuf, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Xcode