

Andrew Seo

andrew-seo.com | github.com/seoa1 | andrew.d.seo@gmail.com | (480) 266-5577

EDUCATION

Arizona State University

BS - Computer Science

GPA: 4.0 / 4.0

exp. Dec. 2022

Vanderbilt University

BA - Biochemistry and Chemical Biology

2016 – 2020

WORK EXPERIENCE

Amazon

Software Development Engineer Intern

May 2021 – Aug. 2021

Tempe, AZ

- Designed and built cross-team user facing notification system for Amazon's Experiments service on the Amazon Seller Central front page serving over 10 million daily users
- Developed two REST APIs to process and send data from DynamoDB to front page feature with < 60ms max latency and to track user actions using Java, Google Guice
- Created new filtration feature for Experiments dashboard based on validation status in React, Redux
- Built unit, integration, and load tests for new features using JUnit, Mockito, Jest

EpiFinder

Software Engineering Intern

July 2020 – Oct. 2020

Scottsdale, AZ

- Built a research tool for annotating medical papers by tagging text selections with keywords from a medical ontology stored in a MySQL database using Java, Spring Boot, JavaScript
- Developed a tool for visualizing and editing medical ontology files from database in the browser
- Collaborated with CEO to mentor other interns and build comprehensive work protocols and standards

Arizona State University

Teaching Assistant

Aug. 2020 – Dec. 2020

Tempe, AZ

- Hosted office hours to teach students Java, object-oriented programming, and essential data structures
- Assisted professor during in-class activities by guiding students, providing demos
- Course: CSE205: Object-oriented Programming and Data Structures

PERSONAL PROJECTS

Pathfinding & Sorting Algorithm Visualizer | *JavaScript, React*

- Web application for visualizing advanced pathfinding and sorting algorithms (Dijkstra's, A*, BFS, DFS) and sorting algorithms (Merge sort, Quick sort, Heap sort, Shell sort, etc.) with interactive GUI

Rate My Opinion | *JavaScript, React, Express, Node.js*

- Social media web application for gamifying the sharing and debating of controversial personal opinions

Minesweeper Solver & Game | *JavaScript, React*

- Minesweeper web application with solver that uses custom algorithms for edge tracking, pattern recognition, and brute-force scenario analysis to get best chance of winning

Multiplayer Real-time Chess | *JavaScript, React, Express, Node.js, Socket.io*

- Real-time multiplayer chess web application with real-time chat and multiple room hosting

SKILLS

Languages: JavaScript • Java • Python • C++ • C# • Ruby • HTML/CSS • SQL

Technologies: React • Redux • Express • Node.js • Spring Boot • Google Guice • DynamoDB • MongoDB