Colton Winfield

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EDUCATION

Florida State University   Tallahassee, FL
Computer Science B.S., Minor in Mathematics, GPA: 4.0   *Aug. 2019 – Dec. 2022*

University of South Florida   Tampa, FL
Bachelor's in Economics, GPA: 3.97   *Aug. 2012 – May 2016*

PROJECTS

Mentat, Open Source | *GitHub, .NET 6.0, C#, HTML/CSS/Bootstrap, MongoDB, MVC*
- Worked in a Jira environment and collaborated with a large development team
- Led the UI team and solely created the project's homepage and visual design
- Refactored MongoDB CRUD operations into a reusable interface; reused service in multiple controllers
- Added dependency injection for universal services
- Developed project modularity; separated presentation and data layers
- Designed core user functionality and translated it from mock-up to working product
- Participated in regular standups, time estimations, sprints, task estimation, and story scheduling

C-Subset Compiler | *LLVM Compiler, Yacc and Flex*
- Created a C-language parser and bottom-up LR(0) go-to-action generator
- Designed an augmented grammar to interpret the C-language
- Developed a C compiler that could translate advanced programming structures

Equidistant | *GitHub, Kotlin, Firebase, Google's Places API, REST, Android IDE*
- Created the Firebase Collections to allow for intricate location objects and user-identification information
- Orchestrated the team in visual design using modern, Material-UI components
- Added Firebase Authorization for unique, searchable user IDs
- Implemented Firebase Cloud messaging to send and receive meeting requests
- Wrote the REST API to retrieve and parse JSON information from Google Places requests
- Implemented Firebase Cloud messaging to send and receive meeting requests
- Integrated a central-point algorithm to locate desirable meeting locations (based on filters) between users
- Led the software engineering team and hosted multiple meetings with the team's developers

Minesweeper Clone | *GitHub, Java, Swing*
- Created a fluid GUI using Oracle's Swing that could work over SSH
- Implemented the search algorithm to detect unexplored grid cells
- Engineered key user features: high-scores, saved states, and board customization
- Created the object serialization for restoration of minute details, which included board state, time, and progress

TECHNICAL SKILLS

Languages: C/C++, Kotlin, Python, Java, C#, Assembly x86, Bash, SQL, JavaScript, HTML/CSS, R
Technologies: GitHub, Firebase, MongoDB, AWS, UNIX/Linux, .NET, Bootstrap, TensorFlow, LLVM Compilation
Skills: Mobile Development, MVVM Architecture, Database Management, Object-Oriented Design, Compiler Design, Operating Systems, Web Development, Version Control, AI, Machine Learning, Deep and Reinforced Learning

EXPERIENCE

Financial Analyst and Accountant   Jan. 2017 – May 2019
Tech Data   *Clearwater, FL*
- Analyzed, investigated, and repaired discrepancies on vendor balance sheets
- Recovered $50 million in credits and accounted for $100 million weekly across gargantuan accounts
- Explored ways to improve and automate accounting processes