Garrett Weston

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Education

Texas A&M University, College Station, Texas — May 2022
Bachelor of Science in Computer Science, Minor Cybersecurity — Major GPA: 3.82

Technical Skills

Programming Languages: C, C++, Python, Golang, Rust, JavaScript, Java, C#, SQL, x86/x64 ASM, PowerShell
Frameworks/Libraries: React.js, .NET, Pandas, XGBoost, Tensorflow, PyTorch, scikit-learn, OpenCV
Skills: Software Development, Agile Methodologies, Object-Oriented Programming, Functional Programming, Web Development, Data Science, Database Design, Project Management, Version Control, SDLC
Technologies: GitHub, HTML, CSS, Docker, AWS, Windows, Linux, MacOS, Ida Pro, Jira, Confluence

Experience

FireEye Mandiant — Software Engineer Intern, Co-Op *May 2021 - Aug 2021, Jan 2022*
- Fast-paced development cycle of maintainable and scalable servers in Golang and Python
- Used Ida Pro, Ghidra and WinDbg to reverse engineer C++ and .NET binaries for integration into proprietary platform, helping to establish a new anti-ransomware offering
- Wrote C++ to interface with low-level OS APIs and develop position-independent code in x86, x64 ASM
- Automated malware repurposing in Python and provided extensive documentation for end-user support

MITRE eCTF — Team Lead, Software Developer *Jan 2021 - Apr 2021*
- Lead design, development and presentation of secure messaging protocol in Rust and Python, deployed on Docker
- Aided refactoring of C implementation into Rust (version control, testing) which resulted in more than 200% faster compile-time, while being the only team to pass all requirements on first submission in competition history

Dell Technologies — Software Development Intern *May 2020 - Aug 2020*
- Designed and trained model for mobile BMU with 0.98 F-score, using Python's sklearn, XGBoost
- Implemented novel feature extraction for integration across data pipeline, which reduced 87% of data in memory, similar to a method presented at ICML 2020

Department of Computer Science — Peer Teacher *Feb 2020 - May 2021*
- Taught software design, debugging, and best practices in C++, Java, and Python
- Conducted weekly review lectures for *Object Oriented Programming*, *Data Structures and Algorithms*

Projects

Exability *Diet and exercise application for users with disabilities, allergies and other restrictions*
- Implemented a frontend using HTML5/CSS and JavaScript which provides continuous diet and exercise recommendations, daily weather updates, and Spotify integration
- Created a SQL database storing user profile, location and disability information to provide tailored recommendations

Voyager *Ratings management platform based on the popular application Yelp*
- Developed Java frontend to create user reviews, retrieve past reviews and construct complex queries such as shortest path across a state of only 5-star restaurants
- Deployed postgreSQL relational database storing location, rating, and review information
- Preprocessed raw data with Python to to structure database relationships with minimal errors