Joe Jobscan

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A recent graduate experienced in writing efficient code, implementing test strategy to reduce maintenance, and working in a diverse list of object oriented programming languages

Skills

C++ | Java | JavaScript | Python | HTML | Object Oriented design | Parallel Computing: MPI, CUDA, Java Threads | Agile Methodologies | Scrum Team | Linux | Windows | Apple | Teamwork/collaboration | Test Driven Development | Debugging | Safe Version Control practices | Problem Analysis | Problem solving

Education

Bachelor of Science, Computer Science
University of Tennessee, Knoxville, TN — August 2016-July 2020 (expected)

Relevant Experience

Software Development Intern
SMS Assist, Chicago, IL — June 2018 - August 2018

- Worked in distributed Agile/Scrum development team to build software for new users on company systems
- Developed C programs in an embedded real-time operating environment for IOT devices
- Programmed network of low powered motion detectors for demo presentations of company product
- Wrote documentation on hardware set-up, test cases, and code functionality

Computer Science Projects

Stock Market Analysis Tool — December 2018

- Acquired and formatted data on stock prices regularizing the values of the data using Python tools
- Did performance testing on neural net structures in simulated market environment
- Iterated on the network structures and input specifications to increase prediction accuracy

Jacobi MPI: computation vs communication: Parallel Programming — November 2018

- Implemented one-D Jacobi problem in both MPI and OpenMP to compare scaling of communication costs
- Used OpenMP to implement a concurrent version of the algorithm to better utilize the CPU
- Implemented algorithm in MPI and used efficient blocking to minimize communication needs

Sieve of Eratosthenes OpenMP Implementation: Parallel Programming — October 2018

- Took a linear implementation of a prime number generator and optimized it
- Used OpenMP to implement a concurrent version of the algorithm to utilize the CPU's full capabilities
- Iterated on the implementation for improved performance

Trip Planning Web Application: Software Engineering — May 2018

- Worked in an Agile-style team to design long-term, maintainable code and deliver on evolving client needs
- Built test plans to minimize buildup of technical debt and improve testing effectiveness
- Built RESTful application and server with Javascript and Java to help plot optimal traversal of client trips
- Adapted to changing project goals in the SDLC to deliver iterations on the project while improving maintainability
- Used SQL and database of key global locations to allow users to search for new locations of interest

Text Analyzer: Software Development With C++ — December 2017

- Built and optimized C++ application for automation of analysis of text documents for content
- Utilized STEM algorithm to analyze, separate, and define root words
- Performed TFIDF scan for word use across multiple documents to find content similarity