Thomas DuPlessis

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Skills

Best Languages: C++, Java, Haskell
Other Languages: Emacs Lisp, C, JavaScript, Scala, Python, Bash
Technologies: SQL, Git, Android, Linux, HTML, CSS, LaTeX

Work Experience

Software Engineer @ Google — June 2017-present

Software Engineering Intern — Summer 2016

Google Maps data infrastructure (Geo: Data) on the feeds team which handles third party data in Maps. My work entailed using C++, MapReduce, Spanner and Flume.

Summer Technology Analyst, Citi — Summer 2015

Worked on several projects on a team developing a front office platform using Java and Spring. I added JSON support to the backend trade processing system so that JSON formatted trade information can be sent through an API call. I also made a Stress test program for our backend using Gatling and Scala.

Software Engineering Intern, Kongsberg ITS — Summer 2014

Worked on a digital radio system: doing socket programming in C++ as well as GUI development in C# for a military vehicle control system. I wrote testing software for the control system as well in C++ and C# that communicated over a CAN bus.

Education

Stony Brook University

MS Computer Science — **2017**
BS Computer Science, BS Applied Mathematics and Statistics — **2016**
GPA: 3.59 **Awards**: Dean's List, University Scholars program, Presidential Scholarship

Projects/Open Source Contributions

Visual SLAM Robotics Implementation (course project)

Final project for graduate Computer Vision course on a team of two. We implemented a version of the SLAM algorithm for a real robot based off the paper: A Constant Time Stereo Slam which details an efficient method to localize and map a robot's environment through live a video feed using C++ and OpenCV (Code located on github).

Emacs-Eclim (open source project)

I am a contributor to the open source project "Emacs-Eclim" which provides an interface for emacs to use Eclim, a backend code completion and project manager backend for text editors, using Eclipse. I helped add Scala completion and error checking to the Emacs Eclim project.

Friend Finder App (Android app)

Competed at Mhacks (2013) where we built an android app that would point to a fellow android who had the same app so that you can find your friends. I helped code the formulas to determine the angles and implemented a page with your locations on a map using Google APIs.

About Me

I am looking for an full time employment for the starting in the Summer 2017. My main academic interests are in Algorithms, particularly, Computational Geometry and geometric algorithms. I am also a GNU/Linux enthusiast and open source contributor.