Alain Pimentel

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Education

Southern Adventist University | BS in Computer Science and Mathematics (dual majors) | May 15
- Overall GPA 3.86
- Outstanding Senior Award in Computer Science

Experience

Software Engineer Intern | Center for Innovation and Research In Computing | April 2014 - May 2015

- **Missionary Hub:** Using a LAMP stack, developed the project's chat feature, the admin site, and the integration of a video player for server content. Also used JavaScript and jQuery for frontend features.
- **Custom Video Recorder for Android**: Used third party libraries to implement background resumable uploads from Android devices. Developed a video player imitation with images and sound. Used FFMPEG to encode uploaded files into videos in the server.
- **FFMPEG Android App**: Used a third party FFMPEG library to encode videos in Android devices.
- **Mobile Board Game**: Research and development of a board mobile game using Cocos2D-x for Android and iPad.
- **RSS Reader Android App**: Fetched and parsed an RSS feed from a server to display and share content. goo.gl/VcDC3H (Google Play Store)
- **Downloader API:** Worked with C++ and the libraries jsoncpp and boost. Parsed JSON served from a server and implemented resumable downloads.
- **Online Applications & Payments:** Used a LAMP stack to create forms for a high school's applications. Added online payments support with Stripe. Created the MySQL database. circ.cs.southern.edu/caapplications.
- **Others**: Extensive use of git, open source libraries for Android/Java/PHP/C++, and Linux.

Math Tutor/Grader/Teaching Assistant | SAU Math Department | Fall 2011- Winter 2014
- Worked as a tutor/grader for most lower division math classes.
- Worked as a teacher assistant for Survey of Math, College Algebra, and Calculus II.

School/Side Projects

- Worked in a team-based environment to develop a Bible app for Android using the Agile methodology. Developed the the Bible viewer activity. github.com/Jwashton/BibleApp
- Helped develop a multiplayer game for a networking team project using Node.js goo.gl/420gFq (Github).
- Developed a web TV show tracker using asp.NET and SQL.
- Developed a web hub to store projects and allow communication between team members using Flask. meta.alainp.me
- Online Coursera course: Functional Programming Principles in Scala.

Skills

- **Proficient**: C++, Android (Java), PHP, SQL
- **Prior Experience:** Python, Scala, JavaScript, C# (.NET)
- **Bilingual:** English/Spanish

- **Software:** Visual Studio, Eclipse, Android Studio, MS Office, Linux
- **Backend Development**
- **Mobile Development**