

# Alain Pimentel

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## Education

### Southern Adventist University

Collegedale, TN

B.S. Computer Science, Mathematics *May 2015*

- Cumulative GPA: 3.86. Placed on Dean's List every year
  - Outstanding Senior Award in Computer Science 2015
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## Experience

### Center for Innovation and Research in Computing

Collegedale, TN

*Software Engineer Intern*

April 2014 - May 2015

- *Missionary Hub*: Maintained the MySQL database and developed an interactive interface for the administrators. Improved the video encryption script using FFmpeg. Created a chat interface. LAMP (PHP), jQuery, HTML/CSS
- *Missionary Mobile App*: Used a third party library to implement resumable uploads from Android devices to the servers. Redesign the UI. Implemented a video player using images and sounds. Android
- *FFmpeg Mobile App*: Used a third party library to encode videos on devices. Android
- *Mobile Board Game*: Researched and developed a demo for a board mobile game. The demos contained a database for questions, answers, and maps, as well as player animations and map movement. Cocos2d-x, Android
- *RSS Reader App*: Fetched and parsed a daily RSS feed from a server to be read and shared by users. Android
- *Downloader API*: Used boost and jsoncpp to fetch information from a server and allow resumable downloads. C++
- *School Application App*: Developed a database to store the applications for a high school and created an interface for users to input their information. Added an online payment functionality. LAMP (PHP), Stripe, jQuery, Bootstrap 3, HTML/CSS

### Math Department at SAU

Collegedale, TN

*Math Tutor/Grader/TA*

Fall 2011 - Winter 2014

- Tutored and graded for most lower division math classes.
  - Worked as Dr. Anderson's TA for Survey of Math, College Algebra, and Calculus II.
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## Projects and Others

- *Resume App*: Used the latest material design library to do a mobile resume/portfolio. Android
  - *Bible App*: For a team project, developed the navigation and the Bible viewer Activity. Android
  - *Meta*: Senior project, developed the database and all of the user creation and security. Flask
  - Online Coursera course: Functional Programming Principles in Scala.
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## Skills

*Advanced*: C++, Java (Android), PHP, MySQL

*Software*: Android Studio, Eclipse, Linux

*Experienced*: Python (Flask), Scala, Javascript, C#

JSON, REST

*Bilingual*: English/Spanish

Mobile and backend development