JacobStuart
Software Engineering Intern

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Technical Skills
Java, C/C++,
Android Development,
Linux Kernel,
Git Source Control,
SQL, Node.js

Education

2014–Now	**Bachelor of Science - Computer Science** (3.6/4.0)	Purdue University

Minor in Management
- Expected May 2017
- Dean's List

Experience

2015–Now	**Scientific Applications Developer**	Rosen Center for Advanced Computing

Architecting tools used in the maintenance and operation of Purdue's High Performance Computing resources.
- Software Package Maintenance
- Kernel Optimization
- Quality Assurance and Trouble-Shooting

2015–Now	**Undergraduate TA**	CS190 (Tools and Resources)

Instructing students on advanced techniques regarding shells, advanced editors, source control, and debugging.

Projects

Ongoing	**Linux Kernel Development**	Kernel C

Designing and integrating various modules and drivers into the Linux Kernel and utilized advanced Kernel compilation techniques.
- Investigating the sending of git patches in plain text
- Generating pseudo Linux Kernel Mailing List interactions

Ongoing	**Tapzu**	Android Application

Formulating advanced content aggregation front end. Exploiting advanced Android patterns such as MVVM and databinding.
- Devised asynchronous fetchings in RxJava
- Cultivated 500 active users on Google Play

May 2015	**Radio 91x**	Android Application

Reverse engineered a closed streaming API into an Android application designed to stream music in the background with song history and favorites.
- Constructed foreground service with IBinder communication
- Devised SQLITE backend

June 2015	**Push Torrent**	Node.js Server Applicaton

Developed nonblocking server application to observe a websocket and intelligently download links.
- Implements websockets
- Incorporated Gzip support

April 2015	**IRC Client**	C++ with GTK GUI

Reimplemented server and client of the IRC specification.
- Integrated GTK GUI
- Wrote featureful C Networking