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Siddharth (Siddu) Duddikunta

Portfolio www.siddu.me
github.com/sduddikunta

Education

Georgia Institute of Technology, Atlanta, GA

BS Computer Science | 4.0 GPA

Data Structures and Algorithms – Teaching Assistant

Sun Certified Developer for the Java Platform

Sun Certified Programmer for the Java Platform, SE 6

August 2014 – December 2016

January 2015 – December 2016

May 2009

June 2008

Work Experience

Facebook | Software Engineer, Camera Effects Backend

January 2017 – Present

- Build and support backend web and ranking infrastructure in Hack for many Facebook Camera effects feature teams.
- Built and migrated the product onto a redesigned infrastructure that reduced the resource footprint by 50% without negatively affecting the product experience.

Facebook | Software Engineer Intern, TAO/Cache Infra

May 2016 – August 2016

- Implemented atomicity guarantees for racing writes to Facebook's distributed graph datastore with C++ and MySQL.
- Identified, profiled, and removed a bottleneck in a C++ background data repair job, resulting in 15% lower CPU usage and in increased operations per second.
- Improved code and test quality and coverage across the TAO codebase using ASAN and static/dynamic analysis tools.

Facebook | Software Engineer Intern, Payments Platform

May 2015 – July 2015

- Implemented support for a new credit card security standard in the C++ payments processing backend, created and migrated MySQL tables to support the new feature, and wrote unit tests.
- Implemented data ingestion pipeline in C++ and Python to load and maintain necessary card data into MySQL.

The Coca-Cola Company | Software Development Intern, Enterprise Architecture

June 2014 – August 2014

- Built a Java EE/Spring/AngularJS web application on the Heroku cloud to aggregate and report on crowdsourced data.
- Designed a device with the ATmega328 to interface a vending machine to a Python server to support mobile payments.

Profitword | Software Development Intern

August 2013 – May 2014

- Built a new dashboard-style UI to replace the UI of a current product using AngularJS, jQuery, and HTML5/CSS3.

IBM Silverpop | Intern

June 2013 – July 2013

- Built a Hadoop and Cascading application to process HTTP server logs and report improper uses of insecure APIs.
- Created a Spring/Java EE/jQuery modern web application to record data for a fitness 10000 steps competition.

Projects

Georgia Tech Buses for Android

August 2014 – Present

- Best-rated Georgia Tech bus tracking app on Google Play with over 4000 active installs. **Google Play:** [goo.g1/4HRlhG](https://play.google.com/store/apps/details?id=com.google.g1/4HRlhG)
- Recognized by Georgia Tech Parking and Transportation Services as the solution for bus tracking on Android devices.
- Custom backend written in Python and Flask aggregates bus information and serves data to application on device.

Financialize: MHacks V – Winner of Capital One and Bloomberg Prizes

January 2015

- An app to recommend savings strategies and diversified investment portfolios based on a consumer's financial data.
- Primarily Java/Spring/Azure cloud processing, with Android app frontend. **Open source:** [git.io/9Jw4Pg](https://github.com/siddu/9Jw4Pg)

Flash Aid: HackDuke Fall 2014 – Health/Wellness Grand Prize Winner

November 2014

- Android app and Python server to crowdsource community emergency medical responders faster than an ambulance.
- Material design and uses GCM for emergency push notifications. **Open source:** [git.io/OAPgDw](https://github.com/siddu/OAPgDw)

Skills

Programming – Java | Hack | SQL | C++ | C | JavaScript | Python | HTML5 | CSS3 | Linux/Unix Shell

Tech – Linux | MySQL | Hive | Presto | Thrift | Android | React | Flask | Spring | Java EE | Hadoop

Tools – IntelliJ | Clang, GCC, ASAN, Infer | Git, SVN, Mercurial | Gradle, Maven, (C)Make, Buck | Heroku, AWS, OpenShift