

Siddhanathan Shanmugam

STUDENT · COMPUTER SCIENCE

Philadelphia, PA 19104

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Education

Drexel University

Philadelphia, U.S.A.

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2013 - PRESENT

- Member of the Pennoni Honors College.
- Received an A. J. Drexel Scholarship.
- Listed on the Dean's List for academic excellence.

Experience

Geoffrey Mainland, Drexel University

Philadelphia, U.S.A.

RESEARCH ASSISTANT

Sep. 2015 - PRESENT

- Worked on Ziria, a programming language and compiler for low-level bitstream processing.
- Ported the compiler-toolchain to Linux.
- Profiled the C-backend for performance bottlenecks, and optimized slow sections of the C-backend.
- Wrote tools to auto-generate performance charts.
- Worked on an OFDM implementation which uses a VHDL-backend.

CDM Inc.

Philadelphia, U.S.A.

DATA ANALYST

Sep. 2014 - Apr. 2015

- Wrote parsers for binary file formats dealing with big data.
- Used data analytics to help engineers understand their data.
- Developed and deployed web applications which made repeated data analysis easier.

Canonical Ltd.

London, U.K.

VOLUNTEER

Sep. 2010 - Sep. 2014

- Tested unstable packages and reported bugs for QA/QC.

Sympy Development Team

Google Code-In

MENTEE

Sep. 2011 - Feb. 2012

- Used Sphinx to auto-document Sympy source code.

Extracurricular Activities

Drexel Institute of Electrical and Electronics Engineers

Philadelphia, U.S.A.

HEAD TECHNICAL CHAIR

Jun. 2014 - PRESENT

Drexel Linux Users Group

Philadelphia, U.S.A.

PRESIDENT & FOUNDER

Sep. 2015 - PRESENT

Drexel Hyperloop

Philadelphia, U.S.A.

CONTROL SYSTEMS ENGINEER

Sep. 2015 - PRESENT

DragonHacks

Philadelphia, U.S.A.

ORGANIZER & HEAD TECHNICAL DIRECTOR

Sep. 2014 - PRESENT

Presentation

SpaceX Hyperloop Pod Design Competition

Texas A&M, U.S.A.

PRESENTED AN IMPLEMENTATION OF THE SPACEX HYPERLOOP ALPHA PAPER

Jan. 2016

- Proposed a revolutionary approach for Hyperloop pod controls to SpaceX engineers.