

CHARLIE HUANG

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EDUCATION

University of Toronto

Expected Graduation 2018

- B.A.Sc. in Engineering Science – Electrical and Computer Engineering
- Honor Roll 2014-2016, President's Entrance Scholarship (2013)

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Perl, CShell, Tcl, Verilog, Objective C

Technologies: Linux/Unix, Perforce, Visual Studios, Arduino, Xcode, NIOs 2 Assembly

PROFESSIONAL EXPERIENCE

Software Developer Intern

May 2017 – Aug 2017

Google

Waterloo, Canada

- Designed and implemented a safe, easy to use, and serializable Money API
- Updated Display Ads Infrastructure's auction codebase to make use of new API
- Refactored code to help facilitate new auction services

Software Engineering Intern

May 2016 – Apr 2017

Advanced Micro Devices

Sunnyvale, USA

- Provided support and enhancements to the TileBuilder Infrastructure, a distributed system used for automated design flow for VLSI physical design
- Enabled caching and parallel processing in critical paths of the flow to improve runtime
- Constructed new parameterized design flows for early technology evaluation
- Wrote Python scripts to process data and store performance metrics into MySQL databases
- Wrote and updated Tcl scripts for calculating utilization, leakage power, timing analysis
- Wrote software regression test suites

Research Intern

May 2015 – July 2015

Lund University

Lund, Sweden

- Designed an ASIC for matrix multiplication from behavioural description to GDSII
- Utilized CAD circuit-design tools: ModelSim, Design Vision, and Cadence Encounter
- Wrote Python scripts to optimize design by performing parameter sweeps of utilization density and aspect ratios

EXTRACURRICULAR

Volunteer at Habitat for Humanity

Summer 2017

Developer of an Interactive Image Processing Game

Summer 2016

Team Lead for Autonomous Mobile Robot Project

Winter 2015

Application Game Developer at Royal Ontario Museum

Summer 2014

Volunteer at Front Desk of YMCA

2012 – 2013