

education

B.A. in Computer Science – Boston University

September 2014 – December 2017

- Major GPA: **3.91** / Overall GPA: **3.67**
- Dean's List: **Fall 2014, Spring 2016, Fall 2016**

experience

Course Assistant – Boston University

January 2015 – December 2017

- Taught six semesters in three intro CS classes, covering Python, Java, MySQL, and HTML
- Developed Python scripts to automate grading of JFLAP finite state machines

projects

Pylet – [C++](#), [Qt](#), [Qt Designer](#)

www.chamathsd.me/pylet

- Python IDE for beginner programmers with a simplified interface and clear error reporting
- Used by BU students during the Summer 2016 semester for class assignments

Distance Field Raymarcher – [GLSL](#)

www.chamathsd.me/df

- Path tracing tool that can render photorealistic depictions of simple scenes in near real-time
- Combines the OpenGL pixel shader pipeline with traditional ray tracing techniques

HotSwap – [Android Studio](#), [Firebase](#), [Java](#), [Python](#), [Flask](#), [Scrum](#)

www.chamathsd.me/hotswap

- Android app that allows users to swap unused items and chat in real-time
- Integrated Facebook and Twitter authentication as well as the Stripe payment API
- Coordinated team efforts as a Scrum master during several development cycles

mycritic – [Python](#), [Django](#), [HTML5](#), [CSS](#), [SQLite](#)

www.chamathsd.me/mycritic

- Crowdsourced review aggregator which recommends media based on user similarity
- Used a Python and SQLite backend to index new user ratings in sub-linear time

WesterosCraftUnreal – [C++](#), [C](#)

www.chamathsd.me/wcu

- An Unreal Engine 4 plugin which dynamically streams Minecraft world data

awards

Best Beginner Hack - *Codestellation 2015*

November 2015

- For ThoughtSpace, a virtual playground that utilizes Unreal Engine 4, Oculus Rift, and Leap Motion
- Awarded out of 16 teams and among 40 other contestants

Best Web Application - *Codestellation 2016*

November 2016

- For ImitationGame, a Node.js app which uses multiplayer chatrooms to gamify the Turing test
- Awarded out of 15 teams and 30 other contestants

skills

Languages (Proficient): C++, Python, Java, SQL

Languages (Familiar): C, C#, GLSL, JavaScript, R, HTML, CSS

Operating Systems: Ubuntu / Debian Linux, Android, Windows

Frameworks: Qt, PyQt, Git, Travis CI, Android Studio, Unreal Engine 4, CMake, Firebase, Node.js