# Chamath Dharmasiri

www.chamathsd.me San Marcos, TX

### 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/dfr

- 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 is 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, Travis Cl, Android Studio, Unreal Engine 4, CMake, Firebase, Node.js