

Charles Dracos

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Education

Duke University

Class of 2020
Computer Science B.S.
Minors in Economics
and Philosophy
GPA 3.54 (3.76 in Major)

Horace Mann School

Class of 2016
GPA 3.67

Honors/Awards

Duke University

Dean's List (Fall 2017)

Horace Mann School

Computer Science and Math
Senior Honors

Skills

Programming Languages

Java, C#, Javascript, C,
Assembly (MIPS), Python,
Swift, HTML, CSS, SQL

Technical

Git, Virtual Machines,
Command Line, Microsoft
Azure, Jenkins

Relevant Coursework

- Software Design & Implementation
- Data Structures & Algorithms
- Computer Architecture
- Discrete Mathematics for Computer Science
- Probability / Statistical Inference

Interests

Pixar, Star Trek, Travel, Food,
NBA, Skiing, Card Playing

Work Experience

Impero Software – Software Developer Intern

May 2018 – Present | Nottingham, UK

- Improved internal testing platform used to create virtual clients (via TCP) and simulate server stress by adding message sending and group functionality
- Corrected automated performance tests (Jenkins) by solving race conditions and properly removing/renouncing clients from the company server, allowing the program to pass 100% of tests (from 36%)
- Planned logic for company website to remember previously logged in users via cookies and enable the site to properly await confirmation for teacher login to Google Classroom
- Refactored token authentication/validation for company's web server API into key signing (and refreshing) and token validating classes for stronger encapsulation and security

Teaching Assistant / CS 201 & CS 308

Fall 2018 | Duke University

- Will grade student exams, lead discussions sections, hold office hours, and answer questions online for a class which introduces students to Java, hash maps, compression algorithms, and other data structures / algorithms (201)
- Will read and give feedback for student code projects, design labs to introduce software development concepts such as lambdas, reflection, and event listeners and meet one-on-one with students to give personalized suggestions for code design (308)

Projects

voogasalad – Game Engine (Java)

March 2018 – May 2018 | Duke University

- Developed a side-scrolling game engine for a 10-person group project of 15,000+ lines by implementing an Entity-Component-System design pattern
- ### sphereCrypt (Python)

Summer 2018 | Nottingham UK

- Created an encryption/decryption scheme from scratch which takes a message and bounces it around a virtual sphere to create an encrypted message that can be decrypted using the same mechanism

Personal Website (HTML/Javascript/CSS)

Summer 2018 | Nottingham UK

- Fully designed a webpage displaying personal interests and projects in a smooth, user-friendly way

Community

Computer Science and Economics Peer Tutor

September 2017 – May 2018 | Duke University

- Assisted students in computer science and economics courses

Virtual Reality Lab Assistant

February 2018 – Present | Duke University

- Prepared students and faculty to interact with Duke's virtual reality environments