**JIMMY SHI**

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Education & Skills

Johns Hopkins University, B.S. Computer Science, Applied Math & Statistics, GPA 3.81/4.0, Dean’s List Aug 2018 - May 2022

Coursework: Data Structures, Intermediate Programming in C & C++, Discrete Math

Organizations: JHU ICPC Competitive Programming Team, HopHacks Cohead of Design & Frontend, ACM Freshman Board

Web Dev: Experienced: React, Redux, Saga, JavaScript/TypeScript, Jest, HTML, CSS/SCSS/LESS, Material Familiar: Open Source

More Languages & Frameworks: Experienced Java, JUnit, Python, C#, Unity Familiar: C, C++, Django, WebSockets, Bash

Productivity & Tools:Agile, Crucible, Fisheye, JIRA, Confluence, Travis CI, Netlify, Heroku, Linux, Command Line, Git

Digital Design: Adobe Photoshop, Illustrator, After Effects. I designed the official JHU 2022 Class Banner and Class t-shirt.

Experience

Johns Hopkins Applied Physics Laboratory Air Missile Defense, Laurel MD May 2019 - Present

Software Engineer Intern <React, Redux, Redux-Saga, TypeScript, Jest, C#, Python, WebSockets, MaterialUI, Cesium/>

* Developed features for a Department of Defense Air Missile Defense mission planner to be used by Navy warfighters
* Contributed ~7,000 lines of code out of the ~22,000 lines written by 4-5 fulltime developers since the start of my internship
* Lead framework development for Cesium 3D globe integration, a modular Modal system and aspects of the UI design system, with fulltime engineers following my designs when implementing their new features
* Wrote async end-to-end tests for features interfacing between frontend UI and a backend synchronization service

Semester.ly, Baltimore MD Jan 2019 - Present

Full Stack Software Engineer Intern <React, Redux, JS, Jest, Python, Django, HTML, SCSS, PostgresSQL, Linux, Open Source/>

* Introduced new features to the open-source course scheduling repo and helping deliver schedules to over 2,000 users
* Coded a data import flow using Django MVC framework, interfacing with JHU IT servers to verify thousands of schedules
* Helped other interns with frontend design using React and SCSS, pushing several visual enhancements to the repo

Princeton University, Troyanskaya Laboratory, Princeton NJ Jun 2017 – Aug 2017

Research Intern <Python, Multiprocessing for Computational Genomics, Bash, Linux/>

* Lead the intern team on research and development of a gene fold overrepresentation data analysis repository
* Designed a multiprocessing overhead mapping system, speeding up tests like single-thread PAGE by 5x using just 8 cores
* Wrote seven statistical algorithms and unit tests in 1,500 lines of robust, modular and well-documented code
* Presented findings to the Deputy Director of Genomics at the Simons Foundation in New York City

Activities

HopHocks Hackathon Organizer Team, Cohead of Design and Frontend Dec 2018 - Present

<React, MeteorJS, Linux Adobe, Photoshop & After Effects /> www.hophacks.com

* Co-designed the Spring 2019 and Fall 2019 website Frontends with over 11,100+ combined views
* Appointed Cohead of Design by the Director after my first year with HopHacks

Jane Street 2019 SEE Program, Invitee May 2019

* 1 of 32 invitees who attended an all-expenses paid 3-day trip to Jane Street Headquarters in New York City
* Met with developers and quantitative traders, learning about working on the trading floor, market structure and arbitrage

Awards

2016 National STEM Video Game Design Challenge Team Award ($3,000 prize), 1 of 18 winners from 3,000+ entries Oct 2016

Coding Competitions

Hackathons

Platinum Division Qualifier, Top 10% contest ranking

4th Place/31 contestants (2nd Place undergraduate)

5th Place/15 teams

2nd Place/35+ teams, Best Use of Google Cloud ($768)

Assistive Tech Track, Best Use of AWS/10+ teams ($500)

Best Mobile App/10+ teams

@ USA Computing Olympiad

@ Bloomberg CodeCon at JHU

@ ACM ICPC Mid-Atlantic Regionals at JHU

@ HopHacks, Johns Hopkins University

@ HackNYU, New York University

@ HackMHS II, Millburn High School

Nov 2018

Nov 2018

Jan 2017

Sept 2018

Feb 2017

May 2015

Projects

Machine Learning- Charm City Murals, winner of the HopHacks 2nd Place award [github.com/jshi22/Charm-City-Murals](https://jimmyshi360.github.io/charmcity/)

Training vision models on just one image using Python, TensorFlow and Augmentor for recognizing Baltimore murals Winter 2019

Video Game- Radiant, winner of the National STEM Video Game Design award [github.com/jshi22/Radiant](https://github.com/jimmyshi360/Radiant)

Developed at a Carnegie Mellon University game academy, 6,000 lines of C# code in the Unity Game Engine Summer 2016

Android App- Pirate Maps [play.google.com/store/apps/details?id=com.CSI.HSSPirateMaps](http://play.google.com/store/apps/details?id=com.CSI.HSSPirateMaps)

Navigating buildings, implemented pathfinding using Djikstra’s shortest path with backtracking written in C# Fall 2018