

#http://www.jimmyshi.com/ in linkedin.com/in/jimmyshi360 📞 (609) 216-0130 

### **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 Cl, 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	Platinum Division Qualifier, Top 10% contest ranking 4 <sup>th</sup> Place/31 contestants (2 <sup>nd</sup> Place undergraduate) 5 <sup>th</sup> Place/15 teams	<ul><li> USA Computing Olympiad</li><li> Bloomberg CodeCon at JHU</li><li> ACM ICPC Mid-Atlantic Regionals at JHU</li></ul>	Nov 2018 Nov 2018 Jan 2017
Hackathons	2 <sup>nd</sup> Place/35+ teams, Best Use of Google Cloud (\$768)	@ HopHacks, Johns Hopkins University	Sept 2018

Assistive Tech Track, Best Use of AWS/10+ teams (\$500)@ HackNYU, New York University Feb 2017 Best Mobile App/10+ teams @ HackMHS II, Millburn High School May 2015

# **Projects**

Machine Learning- Charm City Murals, winner of the HopHacks 2<sup>nd</sup> Place award github.com/jshi22/Charm-City-Murals 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 Developed at a Carnegie Mellon University game academy, 6,000 lines of C# code in the Unity Game Engine

Android App-Pirate Maps play.google.com/store/apps/details?id=com.CSI.HSSPirateMaps

Summer 2016