**JIMMY SHI**

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[C:\Users\Warden\Downloads\25657.png](https://github.com/jimmyshi360)**C:\Users\Warden\Downloads\mail-24-512.png**C:\Users\Warden\Downloads\64113.png[github.com/jimmyshi360](https://github.com/jimmyshi360) jimmyshi360@gmail.com Princeton Junction, NJ

Education & Skills

Johns Hopkins University, B.S. Computer Science, Applied Math & Statistics, GPA 3.81/4.0, Dean’s List Aug 2018 - May 2021

Coursework: Data Structures, Intermediate Programming in C & C++, Discrete Math, Calculus III, Differential Equations

Organizations: HopHacks Head of Design, JHU ICPC Competitive Programming Team

Competitive Coding:

* Bloomberg CodeCon at JHU: 2nd Place Undergraduate/31 grads and undergrads (4th Place overall) Nov 2018
* ACM International Collegiate Programming Contest Mid-Atlantic Regional: 20th /184 teams Nov 2018
* USA Computing Olympiad: Platinum Division, Top 10% of contestants Jan 2017

Web Dev: Very Experienced: React, Redux, Saga, JavaScript/TypeScript, Jest, HTML, SCSS Familiar: Open Source, MaterialUI

Other: Experienced Java, Python, C# Familiar: Django, WebSocket, Bash, C, C++, Docker

Tools:Agile, JIRA Confluence Crucible, Linux, Command Line, Git (branching and open source)

Design: Adobe Suite. Designed the Official JHU 2022 Class Banner & Class T-shirt given to 1,300+ Freshman.

Experience

Johns Hopkins Applied Physics Laboratory Air Missile Defense, Laurel MD May 2019 – Aug 2019

Software Engineer Intern <React, Redux, Redux-Saga, TypeScript, Jest, HTML, CSS, WebSocket, MaterialUI, Cesium, Docker/>

* Developed UI components using ReactJS and backend Redux-Saga data pipelines for a Department of Defense Integrated Air Missile Defense mission planner for Navy Warfighters
* Merged ~7,700 lines of robust code out of the ~25,000 lines coded by 4-5 active fulltime developers
* Wrote extensive end-to-end tests and integration tests for every feature to verify Redux store states after async calls
* Presented my work to senior leadership within the Air Missile Defense Sector

Semester.ly, Baltimore MD Jan 2019 – May 2019

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

* Introduced new features to the open-source course scheduling repo and helping deliver schedules to over 5,000 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 ReactJS 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 backend 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

HopHacks Hackathon Organizer Team Dec 2018 - Present

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

* Co-designed the Spring 2019 and Fall 2019 website Frontends with over 15,500+ combined views
* I coordinate with the design and website teams helping deliver design materials for each Hackathon event

Jane Street 2019 SEE Program, 1 of 32 invitees May 2019

* Attended an all-expenses paid 3-day trip to Jane Street Headquarters in NYC learning about working on the trading floor
* Selected for my Blotto game entry, using simulations and psychology to rank ~40th/300 entries from fulltime employees

Awards

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

2nd Place/35+ teams, Best Use of Google Cloud ($768), HopHacks Sept 2018

Assistive Tech Track, Best Use of AWS/10+ teams ($500), HackNYU Feb 2017

Best Mobile App/10+ teams ($200), HackMHS II May 2015

Projects

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

Frontend rendering augmented reality machine learning output using Python, Flask, HTML and Heroku 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