JONATHAN OPPENHEIMER

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EDUCATION

Purdue University - College of Science

West Lafavette, IN

Bachelor of Science in Computer Science, Minor in Political Science

August 2021 – December 2024

- Cumulative GPA: 3.88/4.00. Dean's List, 2x Semester Honors
- Relevant Coursework: Data Structures and Algorithms*, Computer Architecture*, Programming in C, Discrete Mathematics, Problem Solving and Object-Oriented Programming, Data Science Labs: Calculus (*currently enrolled)
- Activities and Societies: Hack the Future, Purdue Outing Club

WORK EXPERIENCE

Space Ground System Solutions - Rapid Delivery/Antenna Services Team

Alexandria, VA

Software Engineer Intern

June 2022 – August 2022

- Served on an Agile team to produce synchronous client/server software packages for a remote ground antenna supporting ADS-B aircraft data, and NOAA polar orbiter satellite data
- Utilized NASA's GMSEC message architecture, an interconnection framework for building scalable, extensible ground systems, to implement complete command and control of remote ground antenna and all client-server communications
- · Wrote wrappers and documented brand new message formats for GPS data, and antenna pointing angle transfer
- Developed custom driver for serial communications to an antenna rotator for remote, manual user control, and real time satellite tracks

Glass House Recycling LLC

Falls Church, VA

Founder/CEO

February 2020 – Present (remote)

- Founded curbside glass-pickup business with brother at age 17 to meet demand after Falls Church City stopped providing municipal glass recycling service, later incorporated, set up customer accounts and mailing/billing with limited reliance on third party services
- · Leveraged digital advertising and media (NBC, WAMU, NowThis) to grow customer base to over 100 residential households
- Filed appropriate business tax forms (1065 + K1s, 1040s; Schedules B, E, SE, 2; etc.)

Mary Riley Styles Public Library

Falls Church, VA

January 2019 – March 2020

Assisted patrons, shelved, checked in, and catalogued books, and supported full-time staff

• Stellar half-year performance review

PROJECTS

Page

Leadership Lafayette Storyboard – Hack the Future

West Lafayette, IN

React, Node.js, Mongoose

October 2021 – *April* 2022

- Served as developer in a team of 8 working in an Agile environment to create an all-in-one testimonial submission tool for a local nonprofit, Leadership Lafayette, through the academic year. Site entered production in April 2022
- · Responsible for critical user-facing testimony submission page elements and assisted with administrator dashboard development

My CS Plan - Hello World Hackathon

West Lafayette, IN

Next.js, Flask

September 2021

- Collaborated on a four-person team during Purdue's 2021 Hello World Hackathon to create a web app that returned a minimum listing of classes to achieve two Purdue CS concentrations, given two user choices
- Designed and implemented front-end webpage, and interfaced with flask backend, making HTTP requests with user-selected tracks to fetch and display the optimized course listings

Mustang Mug Falls Church, VA

Svelte, Node.js, Google Firebase

April 2021 – August 2021

- Shared leadership of a team that designed, built, and deployed an online ordering web application for my high school's café, replacing a staff-intensive and inefficient Google form ordering system
- Used MySchoolBucks' API to provide payment options, and report sales to school's existing platform, hosted application on Firebase
- Included a user-facing store that wraps the MySchoolBucks point of sale system and an administrator dashboard for complete configuration of the store's hours and menu
- Wrote user documentation for students and school staff, and technical documentation for future student maintainers

OTHER INFORMATION

Languages: Java, C, Python, HTML/CSS/JS, LaTeX, bash/zsh/sh

Tools/Environments: Git, GitHub/GitLab, various web frameworks, RHEL 7/8, Raspbian, macOS

Awards: Eagle Scout, Purdue Department of Computer Science Kunze Scholarship

Certifications: Active 'Secret' level security clearance, Purdue College of Science Intercultural Teamwork Certificate,

NOCTI Computer Programming, NOCTI Advertising and Design