Jack Hogan

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WORK EXPERIENCE

2023

Peraton
Software Engineering Intern

- Led the expansion of **ServiceNow**'s new **Artificial Intelligence** module using **JavaScript** and Document Intelligence including custom input, parsing, and customer interfaces
- Developed and presented a whitepaper on the systems and processes developed
- Managed daily standups with the intern team to coordinate activities, leverage cross-functional learning, and track deliverables

2023 – PRESENT

Purdue Orbital
Avionics Design Lead

Purdue Orbital is a space team working to create a rocket launch system with the eventual goal of being the first independent college organization to put a satellite in space. Using my knowledge of distributed systems and aeronautics, I lead a team working to create a fault-tolerant and compact system to activate various rocketry systems while collecting data for assorted launch missions.

2023 – PRESENT

Purdue SIGAPP
Backend Development Lead

Purdue SIGAPP is a team that works to create full-stack mobile applications using a variety of technologies. I lead the backend development team working to create a complex microservice-based architecture using **Rust** and **Leptos** to communicate with an app using **React Native**. I also run workshops to teach people new technologies we use in the club.

2020 – PRESENT

Alluja LLC
Founder and CTO

Alluja LLC is a dynamic startup involved in multiple technical projects and initiatives including mobile apps written in **SwiftUI**, libraries in **Swift** and **Rust**, backend servers in **Rust** and **Python**, frontends in **Svelte** and **Leptos**, and BetterDiscord plugins in **TypeScript** with over 5,000 users.

EDUCATION

2022-2026	**Bachelor of Science Candidate** *Purdue University Honors College* Double Major: Computer Science & Artificial Intelligence Minor: Mathematics 3.34 GPA
2019-2022	**Advanced Diploma** *Chantilly High School* 4.3 GPA HONORS GRADUATE

RESEARCH

"Detecting Source Code Plagiarism in Submitted Assignments"

Selected for faculty research position focused on developing solutions for source code plagiarism in the Purdue Computer Science program. Research areas include Abstract Syntax Trees, source code lexing and parsing, similarity analysis, tree theory, and graph theory.

PROGRAMMING LANGUAGES

BACKEND	Java, C#, Python, SQL, MongoDB
FRONTEND	Swift, Kotlin, Svelte, JavaScript, TypeScript, HTML, CSS
LOW-LEVEL	Rust, C, C++

FRAMEWORKS

BACKEND	SvelteKit, Django, Actix Web, Flask, Spring Boot, Express
FRONTEND	SwiftUI, UIKit, Jetpack Compose, React, Svelte, Leptos
LOW-LEVEL	GStreamer, Unix, Systemd, PulseAudio

PLATFORMS & SERVICES

- AWS EC2, ECS, S3, SNS, SQS, Rekognition, SES, Cloudfront, Route 53, ALB, VPC, DocumentDB, IAM, PrivateLink
- Docker, Docker Compose
- Jira

AWARDS

2022	**Outstanding Graduate in Technology** *Chantilly High School*

CLUBS & ASSOCIATIONS

- Purdue Orbital
- Purdue SIGAPP
- Purdue Hackers
- Purdue University Ski & Snowboard Club
- Boiler Book Club
- Purdue Theme Park Engineering & Design
- Mensa International