Joshua Hsueh

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https://github.com/HyperionLegion https://www.joshuahsueh.live

Education

University of Michigan, Ann Arbor (4.0 GPA)

B.S. Computer Science (College of Engineering), Statistics Minor

Thomas Jefferson High School for Science & Technology: (4.0 GPA)

Skills & Awards

- Programming Languages: C/C++, Python, JavaScript, HTML, CSS, Java, TypeScript, SQL, Go, Julia
- Tools & Frameworks: NodeJS, ReactJS, NextJS, VueJS, Android, MongoDB, PostgreSOL, Firebase, Supabase (Firebase alternative), GraphOL, REST APIs, Linux, Git Version Control, AWS, Google Cloud, Redis, Docker
- Machine Learning: Numpy, Keras, Pandas, PyTorch, OpenCV, Neural Networks, K-means, GPT, NLP
- Awards: 4th Uni. Rover Challenge 2023, 6th/6,000 CyberPatriot Finals 2022, 2nd Congressional App Challenge 2021

Work Experience

World Wide Technology: innovative tech solutions provider and integrator

Software Engineering Intern

- Established CI/CD pipeline software to automate/track software building process and notify stakeholders about release notes, maintenance windows, and impacted areas for 50+ deployments and 6,000+ customers
- Refactored NodeJS API to utilize RabbitMQ message bus and GraphQL queries for 50% more efficient master data transactions into backend systems, such as Oracle SOA and PartnerHub, serving over 90 Fortune 100 companies
- Technologies: NodeJS, MongoDB, PostgreSQL, GraphQL, Cloud Foundry, Kafka, Jenkins, Git, Agile, Oracle Cloud

Yext: cloud-based tech company in digital marketing

Software Engineering Intern

- Deployed dynamic location sites with SEO, Google Analytics, and 20% improved page speed performance via caching for corporate clients with over 70 million users such as Wells Fargo, Dunkin', and The UPS Store
- Developed platform to generate QR codes for stores into Knowledge Graph, saving 40 hours per client per use
- Technologies: NextJS, Soy Static Templating, AWS Lambdas, Redis, Jenkins, Go, Git, Agile

HKP Solutions: start-up tech company in hospitality management

Software Engineering Intern

- Launched mobile and web application to manage, track, and reward housekeeping services for the hotel industry
- Led software development team through 12 SCRUM sprints with design, coding, reviews, tests, and issue resolutions
- Technologies: ReactJS, Android Studio, REST APIs, PostgreSQL, Firebase, JWT Tokens, Git

Select Projects

Michigan Mars Rover

- Developed teleoperation processes for robot Rosie placing 4th/104 in University Rover Challenge 2023
- Assembled debugging interface with ROS and Vue.JS to display ongoing, concurrent robot inputs and actions
- Revamped Python program with MoveIt kinematics and motion planning for smooth joint movement

Rainman (Blackjack Artificial Intelligence)

- Automated optimal blackjack betting decisions with AI, genetic algorithms, and YOLOv4 computer vision architecture in Python for real-time card object detection with 97% accuracy and 57% profit percentage
- Generated 50,000+ images with C++ and OpenCV image augmentation; stored into Supabase for training

EscapeVape (Addiction Recovery App)

- Implemented 12 modern therapies and leveraged Natural Language Processing (NLP) machine learning to track, analyze, and promote recovery for 2,000+ users; Received 2nd place Congressional App Challenge
- Technologies: NodeJS, MongoDB, PyTorch, Google BERT, NLP, Google Cloud, Data Structures & Algorithms

Junior Expected Graduation: May, 2025 Top 3 National High School

May 2023-August 2023

June 2021–August 2021

May 2020–August 2020

2022-Present

2021-2022

2020-2022