

Christian Walsh



WORK EXPERIENCE

HYP, Inc (thehyp.co)

Software Engineer (Contract)

Sept 2022 – Jan 2024

- Worked on implementing full-stack features with GraphQL, Nest.js, Next.js, React and Serverless Framework
- Worked closely with team members to integrate new features, met with team at daily standups and one-on-one code reviews
- Managed and monitored AWS deployments and CI with Elastic Beanstalk, CircleCI, CloudWatch, Lambda, Scaylr and more
- Created and implemented a feature that brought a 40% increase in user-engagement during auctions
- Optimized GraphQL queries by 35% on nested queries by optimizing Prisma queries to use nested joins

SkySkopes, Inc

Software Developer (Volunteer)

Dec 2021 – Jun 2022

- Optimized maintenance operations by providing notifications on potential problems that can be mitigated and fixed before found in the field.
- Created QR code system to run specific pipelines of business logic when scanned, and integrated Scandit QR Web SDK.
- Created Next.js based web-app to plan missions, manage assets, create schedules, and more.
- Integrated DJI flight log parsing library in C++ and created Node.js based micro-service to process large amounts of flight log data
- Integrated deep-linking with Airbus UTM to automatically generate pre-filled LAANC authorization requests based on mission plans, schedules and equipment.

Freelance

Software Developer

Dec 2019 - Present

- Created various software for 25+ clients, ranging from full-stack SaaS web applications, automation scripts, e-commerce storefronts and landing pages
- Wrote, deployed and managed deliverables and met with clients for weekly meetings
- Integrated and used a multitude of different technologies and worked closely with clients to improve conversions and workflows
- Implemented scalable system designs to handle sudden traffic spikes, with one website handling a spike of over 40,000 requests per minute flawlessly

EDUCATION

California State University, Northridge

Bachelor of Science in Computer Science

May 2024

- Relevant courses: OOP with Java, Data Structures & Algorithms, Software Engineering, Machine Learning & Data Mining, Database Design, Algorithm Design, Architecture & Assembly, Operating Systems

SKILLS

Languages: TypeScript/JavaScript, Python, PHP, Java, C/C++

Libraries/Frameworks: Next.js, React, Vue, Nest.js, SST, Serverless Framework

PROJECTS

Atlas

Jan 2022

- A web application that assists in the building, deploying and management of docker containers on self-hosted servers
- Built REST API to handle communication with servers and their containers, authentication, deployments and other business logic along with creating Dockerfile and Shell scripts for installation and management.
- Integrated GitHub OAuth and webhooks for automatic deployments on git push, created numerous parsers to generate formatted JSON based on raw text-based SSH output.
- Designed and created component library and responsive UI with Next.js and Tailwind.

Marks Automation Script

Aug 2023 - Dec 2023

- Built an automation script using Python, that automates 4 manual tasks in seconds
- Python code reads proprietary data from Baselight and Flame machines to calculate filesystem locations of frames
- All requests saved to Postgres database and can be used for data analysis and worker efficiency
- Exports to CSV and XLS files with timecode and thumbnail preview that can be uploaded to Adobe Frame.io

Infinity Arm VR Trainer (CSUN Senior Design Project)

Fall 2023 - Spring 2024

- Created VR training environment for trans-radial amputees to train and practice using "Infinity Arm" below-the-elbow prosthetic and embedded foot sole controller.
- Used C++, Python, Unreal Engine 5 and Blender.
- Lead development of hardware to game input pipeline, stat recording and configuration files, where input was read and processed from the foot controller and mapped to animations and actions in game.
- Worked closely with mechanical engineering team in first ever cross-department collaboration to create a project with features to the exact specifications of the Kinesiology/ME Lab requirements, had weekly meetings with stakeholders