

Emanuel Pecson

emanpecson.com • emanpecson@gmail.com • (702) 609-4433 • Las Vegas, NV

EXPERIENCE

JT4 LLC

Software Engineer

Las Vegas, NV
08/2023 - Present

- Modernized a deprecated badge photo pipeline with a full-stack **Next.js** app, restoring **4,000+ employee photos** across **5+ enterprise apps** by offloading media to **MinIO S3** to dynamically store and serve image assets as the company scales
- Spearheaded the development of an internal forum app while mentoring **2 SWE interns** throughout the project lifecycle, leading system design discussions and enforcing best security practices across all team code contributions
- Deployed a **Golang** backend microservice to offload frequent email workloads via **RabbitMQ**, enabling asynchronous processing that reduced core service load and improved system scalability
- Migrated **6+ apps** to **Keycloak** as the OAuth 2.0 provider, enabling authentication SSO consistency across the organization
- Developed a **RESTful API** using **C#** and **ASP.NET Core**, enabling employees across all departments to record work hours through a centralized system

Software Engineer Intern

05/2023 - 08/2023

- Delivered an internal file transfer app with **Nuxt.js** to mitigate the insecurities of a shared directory system, leveraging **Socket.IO** for real-time transfer status updates and ensuring secure migration of **~65 sensitive files monthly**
- Built a **Vue.js** and **SQL Server** solution to replace a bottlenecked spreadsheet process, decentralizing data entry and slashing update delays from **~1 day to ~1 minute**

General Atomics

Software Developer Intern

Poway, CA
06/2022 - 08/2022

- Delivered a code generator with **Python** to transform **30,000+ struct definitions** into a **C++** data model library, eliminating third-party update dependence and cutting data model update wait time by **97%**
- Developed unit tests for **C++** code using **GoogleTest**, integrating automated build-time validation into the **CI/CD** pipeline

Clark County Public Works

Geographic Information System Intern

Las Vegas, NV
01/2022 - 05/2022

- Automated the collection of phone configuration data from **600+ IP-addressable assets** using **Python** and **Selenium**, cutting manual inventory time from **~4 hours to ~20 minutes**

PROJECTS

Hoop Archives — Next.js, Java, AWS, FFmpeg

emanpecson.com/projects/hoop-archives

- Engineered a video editor to convert raw basketball footage into streamable AWS S3 highlights.
- Architected a Java-based FFmpeg processing microservice on AWS Lambda.
- Integrated Auth.js with AWS Cognito and Google IdP for secure access control.

NBA Matchup Metrics — Next.js, Python, MongoDB

emanpecson.com/projects/matchup-metrics

- Developed a tool to build custom NBA lineups and compare player stats.
- Built a Selenium scraper to collect 500 player records from NBA.com into MongoDB.

SKILLS

Languages: JavaScript/TypeScript, Python, Go, C#, Java, C++, HTML/CSS

Frameworks: React.js, Next.js, Vue.js, Nuxt.js, Tailwind CSS, ASP.NET Core

Tools: AWS (S3, Lambda, DynamoDB, SQS, Cognito, CDK), Git, Node.js, Prisma, Docker, Auth.js, MinIO, Figma

EDUCATION

University of Nevada, Las Vegas

B.S. Computer Science — Cum Laude, GPA: 3.86/4.00

08/2020 – 12/2024, Las Vegas, NV