# **Emanuel Pecson**

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### **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 timecard API using **C#** and **ASP.NET Core**, enabling employees across all departments to submit weekly 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 full-stack **Nuxt.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 (S3, DynamoDB, EC2, Lambda), FFmpeg

emanpecson.com/projects/hoop-archives

- Engineered a video editor app that simplifies converting raw basketball footage into highlight clips stored in AWS S3, enabling users to stream plays and filter by player, dunks, 3-pointers, ankle breakers, and more
- Architected a video processing microservice using Java with AWS EC2 to handle compute-intensive tasks with FFmpeg, enabling efficient editing on 6GB+ footage

#### NBA Matchup Metrics | Next.js, Python, MongoDB, Selenium

emanpecson.com/projects/matchup-metrics

- Developed an app for building custom NBA lineups and comparing player performance across key statistical metrics
- Designed a Python script to scrape NBA.com with Selenium and store ~500 player records into a MongoDB database

#### **SKILLS**

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

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

Tools: AWS (S3, Lambda, DynamoDB, EC2, CDK), Git, Node, Prisma, Docker, SQL Server, MongoDB, MinIO, Figma

## **EDUCATION**

#### University of Nevada, Las Vegas

Las Vegas, NV 08/2020 - 12/2024