

# Joshua R. Concepcion

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## EDUCATION

**San Diego State University, San Diego CA** – *B.S. in Computer Science*

**Coursework:** Data Structures and Algorithms, Object Oriented Programming (Java, C++), Software Systems, UNIX System Administration, Data Science Techniques, Artificial Intelligence Fundamentals, Machine Learning, Computer Security

## SKILLS

**Development Environments** - Visual Studio Code, Unity, IntelliJ IDEA CE, UTM

**Programming and Markup Languages** - HTML, CSS, Javascript, SQL, Java, Python, C++, C#

**Frameworks and Libraries** - Pandas, NumPy, SciKit-Learn

## PROJECTS

### UNIX Environment Deployment - Multi-OS Virtual Machine Setup

- Set up and configured virtual machines with various UNIX-based operating systems, including Rocky Linux, OpenBSD, FreeBSD, Solaris, and Ubuntu
- Deployed and managed critical services such as mail servers, DNS servers, and NFS services
- Implemented cloud infrastructure using Microsoft Azure for public cloud services
- Established a GitLab code repository for version control and collaboration

### Autonomous Vehicle System Design Mockup - Software Systems Final Group Project

- Worked in a team to design architectural and UML diagrams for system components including object detection, lane detection, and navigation
- Utilized the Waterfall SDLC model to establish a structured timeline for requirements, design, development, and testing
- Created a user manual detailing AVS functionalities, safety protocols, and user requirements
- Performed security assessment to ensure data privacy and mitigate system vulnerabilities

### Motion Detection Camera – Raspberry Pi Project

- Developed a motion-detection system using C++ and Python on a Raspberry Pi
- Configured real-time monitoring to automatically record and save video clips upon detecting movement
- Implemented email notifications to send video attachments to users, ensuring timely alerts
- Optimized resource usage and minimized false positives through iterative testing and refinement

## EXPERIENCE

### The Korean Rose, San Diego, CA – *Shift Supervisor*

March 2020 – January 2022

- Provided timely and high quality service to all customers
- Assisted with accurate and efficient completion of customer orders by clearly communicating and delegating tasks to baristas
- Maintained a sanitary work environment while adhering to Covid-19 guidelines