HONGZHI ZHU

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EDUCATION

Arizona State University *Jan 2019 - Dec 2020 Phoenix, AZ*
MS in Computer Engineering *GPA: 3.56 / 4.0*

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, Matlab
Software & Tools: **Tech Stacks:** Spring Boot, RESTful API, React, Angular, SQL, TensorFlow, OpenCV
Cloud Servers: Amazon Web Services AWS, Google Cloud Platform

WORK EXPERIENCE

Silicon Valley Bank *Mar 2022 – Jan 2023 Tempe, AZ*
Back-end developer
- Developed and maintained RESTful APIs by writing OpenAPI contracts using Stoplight
- Implemented multiple back-end application layers, including Controllers, Services, and DAOs, using Java and Spring Boot framework
- Configured Gitlab and Jenkins for CI/CD pipeline, resulting in efficient and automated build and deployment processes
- Implemented a Wired transfer automation system, allowing for secure and fast transfer of funds between accounts
- Implemented an API-mock server using Node.js and Javascript, allowing for efficient and reliable testing of APIs during development

Beaconfire Solution *Oct 2021 – Mar 2022 Windsor, NJ*
Full-stack Engineer
- Developed a web-based application for user management system using Angular and Spring Boot
- Created login, on-boarding, and visa status management functions for both employee and HR users
- Designed the database structure and deployed it on Amazon RDS database using MySQL
- Utilized Spring ORM to build connections and added asynchronization to services to improve efficiency
- Integrated file uploading functionality with AWS S3 to enable the users to upload and manage files efficiently

Professional EPICS (Design My Trips) *Jan 2021 – Oct 2021 Tempe, AZ*
Front-end Engineer
- Designed and implemented a custom Chrome extension that allows for the collection of user survey data when they join Facebook groups
- Built a custom user interface for the extension using HTML and CSS, providing an intuitive experience for users
- Integrated the extension with Google Sheets API, allowing for automatic data transfer to a user-specified sheet

PERSONAL PROJECTS

Web-Based Time sheet Management *November 2021*
- Implementation of a single web application with React, allowing employees to manage their weekly time sheets, upload or set default schedules and modify their personal profile
- Use of React-thunk and spring security for SSO
- Use of MongoDB to build the time-sheet database, allowed for quick and easy data retrieval and manipulation.
- Writing micro-service with gateway and composite server for back-end using Netflix Eureka

Cloud Computing using Darknet and AWS *March 2021*
- The project used a Raspberry Pi to achieve IoT by using Python as main programming language
- A Python program was used to capture videos when the movement sensor was triggered. The program was set up to record and save videos locally on the Raspberry Pi
- The program used Darknet, a deep learning framework, to process the videos captured locally. The framework allowed for object detection, classification, and recognition in the videos
-If there were four videos waiting to be processed on the Raspberry Pi, the newest video was uploaded to AWS S3
- Whenever a new video was uploaded to AWS, a new instance was generated automatically by AWS Lambda code to process the video using Darknet