NATALIE PALOS

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nxpalos.github.io/nxp-portfolio/

EDUCATION

Azusa Pacific University   Azusa, CA
    Bachelor of Science in Computer Science, 3.67 GPA   Aug 2018 - May 2022
    Minors in Mathematics and Honors Humanities
- Awards: Dean's List Fall 2018 - Spring 2022

RELEVANT COURSEWORK
Web Programming: Studied website development, emphasizing web-based programming using open-source software including Apache Server, PHP, XHTML, CSS, JavaScript and DHTML, MySQL, and others
Mobile App Development: Built several cross-platform apps using React Native for Android and iOS; gained understanding of authentication, component creation and layout, state management, HTTP/API requests, push notifications, navigation, DB connection, and server-side programming using cloud-based server/serverless infrastructure

PROJECTS

IoT Natural Gas Pipeline Monitoring System   May 2020 - May 2022
- Utilized IoT to design a low-cost, deploy-anywhere system as a direct solution to undetected gas leaks
- Collaborated with student team and professor advisor to develop proof of concept documentation for the system and accompanying mobile application
- Presented at an IN4PL international conference and multiple APU STEM research symposiums
- Published paper by IN4PL 2021 conference on SciTePress Digital Library

Presentation Lead & Front End Team Agape Mobile App   Aug 2021 - May 2022
- Utilized Agile Development methods to plan 8 sprints (2 weeks ea.) to develop a minimum viable product within 16 weeks
- Led team sprint review presentations on progress made each sprint to the class and professor
- Developed mockups and designed the general flow of the app screens as front end team member
- Utilized React Native, Typescript, NodeJS, ExpressJS, and MongoDB to develop the Agape dating app

WORK EXPERIENCE

***Lab Tech & Office Intern at* APU Engineering & CS Dept.,** *Azusa, CA*   Aug 2019 - May 2022
- Tutored Intro to CS II students, assisted in concepts and debugging (Java, Python, C++)
- Collaborated with Administrative Assistant by providing administrative, clerical, and technical support to the Chair, Professors, and Lab Manager of the ECS Department

***Research Assistant for* Azusa Pacific University Keck Grant,** *Azusa, CA*   May 2020 - May 2022
- Conducted research into various IoT/BioTech solutions for real-world problems such as Gas Monitoring, Insect Rearing, and Video Magnification
- Collaborated with student team and professor advisor to compile research and engineer device designs and code

***IoT/ML Consultant for* RLS Research, Inc.,** *Placentia, CA*   Jan 2021 - Jul 2021
- Conducted research into ML concepts and applications (GANs and StyleGAN)
- Experimented with various inputs to the latent vector used to generate human faces using Nvidia's StyleGAN and python/python libraries

SKILLS

Programming Languages: Java, C/C++, HTML, PHP, JavaScript, React Native, React, Python, MARS, R, CSS
Database Management: MySQL, Google Firebase, MongoDB
Topics: Agile Development, Internet of Things, Machine Learning, Embedded programming, Shell Script, Web/Mobile Applications, RESTful APIs, Web Programming, Cross-compilations, Digital electronics, Communications protocols, Version control (GitHub), MQTT, LoRa, GraphQL