

NATALIE WHARTON

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Education

California State University, Northridge

August 2020 – December 2023

Bachelor of Science in Computer Science

GPA: 3.7/4

Related Coursework: Algorithms and Data Structures, Advanced Algorithms and Data Structures, Intro Software Engineering, Operating Systems, Automata, Senior Design Project

Pasadena City College, Pasadena

August 2018 – June 2020

A.A. in Computer Science

GPA: 3.5/4

Related Coursework: Intro Computer Science, Calculus I - II, Linear Algebra

Technical Skills

Backend Development: Java, Python, C++, NodeJS, Express

Frontend Development: ReactJS, JavaScript, Bootstrap, HTML, CSS

Miscellaneous: AWS, GitLab CI/CD, Git, Bash, Jira, MongoDB, MySQL

Experience

Pennymac

June 2023 – August 2023

DevOps Engineering Intern

Agoura Hills, CA

- Collaborated with the DevOps team to design and implement a Canary deployment pipeline using GitLab CI/CD.
- Participated in cross-functional team discussions to integrate the Canary pipeline seamlessly into the development lifecycle.
- Gained exposure to Infrastructure-as-Code (IaC) principles while assisting in managing deployment environments.
- Documented the Canary pipeline setup, deployment steps, and troubleshooting processes, aiding team knowledge transfer.
- Designed and implemented scalable infrastructure solutions on AWS, leveraging services like EC2, S3, SQS and RDS.

Principles, Inc

March 2019 – June 2019

Web Development Intern

Pasadena, CA

- Assisted in development and maintenance of a WordPress website for a non-profit organization, meeting their needs and ensuring usability.
- Worked in WordPress with HTML and JavaScript.
- Collaborated with non-profit staff to identify requirements and implemented design and functionality to meet them
- Managed content and performed regular updates, including security and feature upgrades.

Projects

Trip Generator

- Developed a responsive trip planning app for a variety of trip types, designed to generate and archive travel itineraries with ease.
- Constructed application's front-end using React 18 and MUI components, with Axios for API handling.
- Utilized Google Cloud services and Google Maps API suite to generate efficient trips based on user input.
- Employed custom algorithms in a Python-based Django back-end Restful API to process and securely store trip data in a remote MongoDB Atlas Cloud cluster.

Hotel Management System

- Built a high-performance hotel booking application using the MERN (MongoDB, Express, React, Node.js) technology stack.
- Implemented real-time search functionality and account management to enable users to easily find, filter, book, and manage hotel rooms based on room type, budget, and other criteria.
- Integrated with the Stripe payment gateway to facilitate secure online payments and streamline the booking process for users.