

Daniel Nguyen

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EDUCATION

Bachelors of Science Computer Science

University of California, Davis

June, 2022

Davis, CA

GPA: 3.1

Relevant Courses

Data Structures & Algorithms

Prob & Stats for CS

Information Interfaces

Object-Oriented Programming

Computer Architecture

Database Systems

Algorithm Design & Analysis

Python & Django Full Stack

Operating System

SKILLS

- **Computer Programs:** Git, Unix/Linux, AWS, Kubernetes, Docker, Prometheus, Puppet, Grafana, Helm
- **Coding Languages:** Python, C++, Julia, Javascript, HTML, CSS, Bootstrap, Django, D3.js, Vue.js, PHP, MySQL, MongoDB
- **Languages:** English, Vietnamese

EXPERIENCE

LibreTexts Site Reliability Engineer Assistant

University of California - Davis, Department of Chemistry

Jan 2022 - June 2022

Davis, CA

- Responsible for maintaining a Kubernetes cluster that runs LibreTexts, JupyterHub, and BinderHub; services that allow instructors and students to write and execute code online.
- Learned Prometheus, Puppet, Grafana, Helm, Docker to support the Kubernetes cluster
- Developed a queueing system in Python and launched a web application using Flask

Software Engineering Intern

HCL Technologies

Sept 2021 - Dec 2021

Sacramento, CA

- Developed a RESTful travel destination service utilizing Java Springboot, MySQL, and hosted on AWS.
- Learned Java, Spring Framework, Docker, Kubernetes, AWS, and Devops fundamentals to build software solutions for HCL.
- Practiced Agile development in order to effectively prioritize tasks and divide work amongst team members.

PHP Developer Intern

University of Oldenburg

June 2021 - Sept 2021

Remote

- Developed web pages utilizing PHP, Javascript, Leaflet, and Professor Grosses PHP codebase in order to effectively display predictive ice cap formations in Antarctica.
- Implemented a MySQL database to store user information for login authentication.
- Utilized XAMPP(Apache, MySQL) to host web server and run website for testing.

Research Intern

University of California, Davis

June 2020 - Sept 2020

Davis, CA

- Developed multiple types of simulations to support the ENIGMA paper.
- Utilized the Julia programming language in order to display meaningful graphs and integrated statistical concepts.
- Collaborated with team members to effectively divide up tasks, set deadlines, and coordinated team meetings.

PROJECTS

L-Store Database

Dec 2020 - Feb 2021

- Developed a column-based relational database with ACID properties using Python and OOP concepts.
- Implemented Python's threading module allowing for concurrent access to the database.
- Integrated a cache for handling user transactions by collaborating with team members.

Cuckoo For Coffee

Dec 2020 - Feb 2021

- Built an interactable visualization with team members by utilizing Javascript, TopoJSON, FlexBox, Vue.js, and D3.js.
- Integrated an interactive World Map, Sankey Plot, and Spider Chart that display different qualities of coffee beans reviewed by the Coffee Quality Institute.
- Collaborated with team members to set deadlines, coordinate meetings, and participated in pair-programming.

Django Sample Website

Nov 2020 - Oct 2020

- Built a Django web application using Django's MVC paradigm complete with registration, picture uploading, user authentication, and password encryption.
- Developed a front-end made with HTML, CSS, Javascript, and Bootstrap.
- Created relative links and dynamic pages using Django's templating engine.