Mason Nguyen

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WORK EXPERIENCE

Backend Developer   May. 2023 - Present
Northern Arizona University (Discover Portal)   Flagstaff, AZ
- Designed and deployed RESTful APIs (Django/PostgresDB) with efficient routing and serialization, reducing latency by 30%.
- Improved website speed by 50% through database query tuning and server configuration.
- Resolved critical server/database errors, achieving 99.9% uptime for Discovery Portal.
- Partnered with frontend teams to integrate APIs with React-based UI components.
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Software Engineer Intern   May. 2023 - Sept. 2023
Override, Inc.   Gladwyne, PA
- Collaborated with UI/UX designers to implement front-end improvements, increasing user engagement by 30%.
- Partnered with the QA team to identify and resolve 100+ critical bugs, ensuring a seamless user experience.
- Optimized file formats, improving app speed by 50%.
- Integrated an interactive Learning Resources map adopted by 100% of clients.
- Technologies used: React Native, TypeScript, Expo (Front-End); Ruby on Rails, GraphQL (Back-End)

Data Engineer Intern   Oct. 2022 - Mar. 2023
FocusKPI, Inc.   Santa Clara, CA
- Built a Python dashboard (Plotly, Django) to track KPIs, reducing manual reporting time by 40%.
- Refactored source code, cutting job runtimes by 25%.
- Used GitHub/Slack to coordinate with remote teams.

Software Developer - Capstone   Aug. 2022 - Apr. 2023
Lowell Observatory   Flagstaff, AZ
- Designed versions of website templates to choose from as part of University's Capstone project
- Connected backend server using Flask to frontend server using ReactJS, which combines a flexible and scalable backend with a highly interactive and performant frontend
- Designed a 4-server system (frontend, backend, database, spectrograph) with SQL logging.
- Built a SQL database to keep logs of the various observations
- Ensured backend flexibility to handle 10K+ monthly observations.

Research Assistant   May. 2022 - May. 2023
Northern Arizona University (Discover Portal)   Flagstaff, AZ
- Developed and optimized the Discovery Portal by reverse-engineering AERPAW's open-source codebase for academic use.
- Published findings on database optimization techniques in university tech reports.
- Partnered with faculty and grad students to deploy tools supporting 10K+ monthly research queries.
- Contributed bug fixes/features back to AERPAW project

SKILLS
- Programming Languages: Python, Java, C/C++, JavaScript/TypeScript, Ruby
- Backend: Django, Flask, Node.js, REST, GraphQL, Ruby on Rails
- Frontend: React, HTML/CSS, Bootstrap
- Data/Cloud SQL (MySQL, Postgres), BigData, AWS, GCP
- Tools: Docker, Jira, GitHub

EDUCATION

Bachelor of Science in Computer Science (GPA: 3.9)   May 2023
Northern Arizona University   Flagstaff, AZ
- **Relevant Courses:** Data Structures and Algorithms, Web Programming 1 & 2, Database Mgmt System, Computing Tools 1, 2 & 3, Automata Theory, Principles of Programming Language, Operating Systems
- **Scholarships & Awards:** International Excellence Award (Spring 2020 - Spring 2023), Dean's List (Spring 2020 - Spring 2022)