

BASIL NOOR

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EDUCATION

Oregon State University

Bachelor of Engineering (B.E) in Computer Science

Corvallis, OR

Sep 2021 – Present

- cGPA 3.6/4.0 with Dean's Honor Roll

TECHNICAL SKILLS

Proficient: Python, React, Javascript, Node.js, Express.js, SQL (MySQL), Tailwind CSS, Bash, Git

Exposure: HTML, CSS, Chakra UI, MongoDB, Firebase, C, Docker, GitLab, Jenkins, Redmine, Artifactory

WORK EXPERIENCE

Software Engineer Intern

McLean, VA

Freddie Mac

May 2023 - Dec 2023

- Spearheaded the development of a **Python**-based health check tool utilizing **FastAPI**, applying test-driven development (TDD) methodology to effectively monitor and maintain the health of critical systems.
- Automated the verification process for multiple essential tools (e.g., Artifactory, Redmine, Jenkins, Gitlab, Ansible), reducing manual checks by **80%** and streamlining operations.
- Achieved **100%** code coverage through comprehensive unit testing using **Pytest**, ensuring the reliability and stability of critical tools, and minimizing the risk of production issues and downtime.
- Created a reusable boilerplate solution that enhances development efficiency, estimated to save upwards of **50%** development time for each subsequent API project.
- Collaborated closely with the DevOps team, fostering seamless integration via the **CI/CD** pipeline and improving overall operational productivity.

Software Engineer

Crofton, MD

7-Eleven

Nov 2022 - Feb 2023

- Developed a web application using **React**, **Node.js**, and **Tailwind** to streamline the employee scheduling process for 7-Eleven franchisees.
- Improved scheduling time by **20%** and increased employee efficiency by **25%** through the introduction of a task assigning system.
- Implemented a **MySQL** database to efficiently store and manage employee information, addressing scalability concerns and facilitating streamlined scheduling and task assignment processes.
- Leveraged **Git** for version control to effectively manage and maintain different versions of the codebase, ensuring efficient code management and adherence to best practices for branching and merging.
- Successfully deployed a production build using Google **Firebase**, ensuring reliable and secure hosting.
- Established and enforced website compliance standards, optimizing website files and code to improve load times by **15%** and enhance user experience.

PROJECTS

Team Randomizer Discord Bot

- Engineered a highly efficient Discord bot using **Python** to automate team formation, resulting in a **50%** reduction in team formation time through the implementation of a skill-based system.
- Adhered to **Agile** software development methodologies throughout the development lifecycle.
- Integrated the Hikari **API** and the Hikari-lightbulb **framework** to establish and execute API calls.
- Modeled user/game data in **JSON** format and stored the information in an **SQLite** database.

Exercise Tracker

- Created a full-stack **React** web application with a responsive front-end design.
- Developed a robust **RESTful API** using **Express.js** and **Node.js**, capable of handling various CRUD operations enabling users to seamlessly add, remove, and update workout exercises.
- Stored data in a **NoSQL** document-based database using **MongoDB**, ensuring efficient data retrieval and flexibility in schema design.