Faizaan Datoo

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Education

Cornell University — *Ithaca, NY*
B.S. in Computer Science • GPA: 3.48 — *Aug 2019 - May 2023*

Relevant coursework: OO Design Data Structures Honors, Functional Programming, Intro to Analysis of Algorithms, Intro to Machine Learning

Experience

ServiceNow — *Remote*
Software Engineer Intern — *May 2021 - Aug 2021*

- Implemented several front-end features on the Lists and Condition Builder UX team using JavaScript and Sass.
- Collaborated with broader team in an Agile environment, including design and quality engineers, to robustly build out features with accessibility in mind.
- Won second place in ServiceNow's Intern Hackathon for a project involving natural language processing using Python frameworks.
- Gained experience navigating a large internal developer ecosystem by regularly consulting with other teams for recommendations on best practices during implementation.

Cornell Mars Rover — *Ithaca, NY*
Software Lead — *Oct 2019 - Present*

- Leading an eight-person team that builds controls software for a semi-autonomous rover that competes in the annual University Rover Challenge.
- Launched an initiative to transform the controls software documentation with both client-level information and detailed implementation commentary better suited to the high turnover environment inherent to student-run project teams.
- Designing improved interfaces for controlling the rover, including a streamlined command-line interface and a user-friendly graphical dashboard for rover operation built with React and Electron.
- Collaborating with each of the other subteams to ideate new features and improvements to the controls software, and working with other members of the software subteam to break these concepts into realizable subtasks.

Umoja Outreach Foundation — *Remote*
Full Stack Developer — *Jan 2020; May 2020 - Aug 2020*

- Pioneered a cross-platform mobile app using Flutter, which provides powerful career, networking, and mentorship tools to hundreds of users across 53 communities.
- Created a centralized system for sending emails and push notifications to users depending on their subscription preferences, from an administrative panel which was built in React. This vastly improved the ability for marketing to notify potential clients about Umoja's programs.
- Designed and implemented a unified user profile system using Firebase Authentication and ExpressJS. Allows clients to use one account to access all services on both the website and app, adding a layer of familiarity that drove adoption of the mobile app upon launch.
- Configured and deployed software on servers running Ubuntu Linux with minimal downtime.

Projects

CourseCrafter — *JavaScript, Python*
CRAFT.CIS.CORNELL.EDU — *Feb 2021 - Present*

- Implemented front-end and back-end features for CourseCrafter, an advanced course roster search service, as part of my involvement in the Cornell Future of Learning Lab.
- Designed and implemented a portable authentication module that's compatible with Cornell University's identity provider service and keeps user anonymity in mind.
- Refactored and documented code for readability, in preparation for the eventual open sourcing of the project.

MCP Project — *Java*
GITHUB.COM/PRISONTEAM/PRISON — *Jun 2014 - Jan 2019*

- Led an open source project that develops an all-in-one solution for adding the popular "prison" game mode to Minecraft servers. Gained hundreds of users and over a dozen contributors from around the world.
- Collaborated with contributors to design and lead large-scale refactors while maintaining backwards compatibility across three major versions over its six-year history.
- Resolved disputes between collaborators and made final decisions on reviewing and merging new pull requests to ensure that the project stayed consistent with its established goals and philosophy.

Skills

Languages	Java, JavaScript, Python, Dart, PHP, TypeScript, OCaml
Frameworks	Flutter, Angular, React, Redux, ExpressJS, Laravel, ROS
Tools	Ubuntu Linux, Git, MySQL, MongoDB, Firebase, CircleCI, Jira, Postman