

Samiul Hoque

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Information Systems, Concentration in Computer Science

Pittsburgh, PA

Completed May 2024

GPA: 3.56/4.00, University Honors

Skills: User Research, Wireframing, UML Diagramming, Agile Methodology, API Development, Database Design

Technologies: Figma, Balsamiq, Git, Postgres, Firebase, SwiftUI, React, Swift, TypeScript/JavaScript, Python, HTTPS

EXPERIENCE

Paramount Global

Software Engineering Intern

Pittsburgh, PA

Jun 2023 - Aug 2023

- Converted legacy code (Symfony) to use modern tooling (StencilJS) and reduced code complexity from 3000 lines to 1000 lines
- Eliminated reliance on \$5000/year video-publishing tool by writing front-end code for in-house solution with StencilJS
- Introduced automated testing to frontend web-components with Jest and Puppeteer; verified correctness of code and improved reliability of future code changes

Erie Insurance

Software Engineering Intern

Erie, PA

May 2022 - Aug 2022

- Built automation tool with TypeScript and React to take over 600,000 logs stored in legacy database and reformat logs in under 6 minutes to be compatible with company's new system
- Helped build dashboard for 13,000 agents to securely log client insurance packages, insured properties, and risk via intuitive and modern design using Mendix rapid development and version control
- Communicated during stand-up meetings to synchronize project progress with development team during sprints and in code reviews to ensure project code followed design patterns and was up to company standards

Robotics Institute

Research Assistant

Pittsburgh, PA

May 2021 - May 2022

- Contributed to iOS app to aid disabled persons in navigating to destinations using disability-aware routes
- Created UML diagrams to define database structure and researched API requirements to fetch necessary data
- Worked with 2 city transportation experts and 1 Apple consultant and determined required technologies to develop app (Swift, UIKit, external APIs)

COURSE PROJECTS

Theologos (<https://github.com/HSamiul/theologos>)

Spring 2023 Semester

- Developed web app enabling users to select Bible verses from interactive Bible and to share one's commentary with other users
- Designed wireframes with Balsamiq, relayed progress and blockers with stakeholders over Zoom, and implemented app with Python and Django
- Communicated with stakeholders and defined minimal-viable-product and constructed project plan to complete app within 10-week development cycle

Subleasy

Fall 2022 Semester

- Developed iOS app connecting university students both seeking and providing sublease opportunities; currently working on app with plans to release on App Store
- Implemented database, file storage, and user authentication with Firebase
- Implemented features such as posting, searching and filtering, and messaging with SwiftUI
- Conducted user interviews and designed user stories, discovered use-cases, and iterated user-flows

ADDITIONAL EXPERIENCES

Teaching Assistant: Advised two student-teams from market research to implementation of their own iOS apps.

Community Advisor: Managed team of six resident assistants; ran team meetings; organized community events.