Adrian Hossen

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Science in Computer Science   Expected Dec. 2024
- **University GPA:** 4.0

TECHNICAL SKILLS

Tools: GitHub, Azure DevOps, React.js, TailwindCSS, Next.js, Digital Ocean, Linux, Visual Studio, VSCode
Languages: Java, C#, C, Python, JavaScript, TypeScript, HTML, CSS, SQL, Python, PHP, SCOPE, KQL
Databases: Prisma, Cosmos, MySQL, PlanetScale, PhpMyAdmin, MySQL Workbench

EXPERIENCE

Teaching Assistant   Orlando, FL
University of Central Florida   Aug. 2023 - Current
- Assisting a professor with their Introduction to Programming in C course.
- Holding office hours to provide assistance to the students of the course.
- Collaborating with fellow teaching assistants to grade programming assignments and exams.

Software Engineer Intern   Seattle, WA
Microsoft   May 2023 - Aug 2023
- Developed a dynamic debugging dashboard for Bing's Feeds research metrics.
- Devised an up-sampling mechanism that up-sampled underrepresented exploration paths.
- Collaborated with a Senior Applied Data Scientist to determine the best up-sampling technique.
- Integrated this mechanism into one of Bing's Feeds machine learning model's pre-learning phase.
- Determined whether the mechanism improved the accuracy and precision of the model's predictions.

Explore Intern   Seattle, WA
Microsoft   May 2022 - Aug. 2022
- Collaborated with two interns to create a product proposal that detailed the impact/changes to Bing.
- Collected user feedback and metrics in order to determine the scenarios and features for the product.
- Appended onto a large MVC codebase with the corresponding UI/UX and queries for the product.

PROJECTS

Personal Portfolio | TypeScript, TailwindCSS, Next.js
- Developed a personal portfolio utilizing the Next.js React framework.
- Exercised the use of TailwindCSS to style nearly all the visible components.
- Hosted the site on Netlify which allows for dynamic updates via GitHub.

University Connect | TypeScript, Next.js, Prisma, MySQL, TailwindCSS, Next-Auth
- Implemented a college social platform that facilitated events and club administration for universities.
- Enabled students to share event/club information such as their locations, contact information, and memos.
- Ensured that only registered students with valid school emails are allowed to access this social platform.

Comp-Notes | TypeScript, Next.js, Prisma, MySQL, TailwindCSS, Next-Auth
- Created an authenticated notes app where users can view, create, and delete notes.
- Provided session validation where only authorized users are allowed to access notes.
- Enabled the usage of login providers such as Gmail, Github, and FaceBook.

Programming Language 0 Compiler | C
- Implemented a lexical analyzer, parser, and code generator for the PL/0 programming language.
- Enabled the steps of the compiler to be visualized via distinct output files.