# 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

**Languages:** Java, C#, C, JavaScript, TypeScript, HTML, CSS, SQL, Python, PHP, SCOPE, KQL
**Databases:** Prisma, Cosmos, MySQL, PlanetScale, PhpMyAdmin, MySQL Workbench, NoSQL, GraphQL
**Tools:** GitHub, Azure DevOps, React, Next.js, TailwindCSS, Linux, Visual Studio, Vercel, React Native, Expo, Figma, DTFx

## EXPERIENCE

**Software Engineer Intern** — Seattle, WA
Microsoft — May 2024 - Aug. 2024
- Created an email template validator tool enabling for quick validation, development, and testing of templates.
- Created a test email sending orchestration using the Durable Task Framework to simulate production send outs.
- Created a dynamic email code editor and renderer enabling for the development and testing of dynamic emails.

**Teaching Assistant** — Orlando, FL
University of Central Florida — Aug. 2023 - Dec. 2023
- Assisted a professor with their Introduction to Programming in C course.
- Held office hours to provide assistance to the students of the course.
- Collaborated with fellow teaching assistants to grade programming assignments and exams.

**Software Engineer Intern** — Seattle, WA
Microsoft — May 2023 - Aug. 2023
- Created a schedule of experiments that collected analytical data for Bing Feeds machine learning model.
- Developed a dynamic debugging dashboard that displayed Bing Feeds research metrics as time series data.
- Devised a mechanism that up-sampled underrepresented features within Bing Feeds offline training data.
- Executed test flights to determine whether the mechanism improved the performance of the model.

**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 to determine the scenarios and features for the sports experience.
- Created a dynamic sports experience that provided schedule-based and outcome-based content.

## PROJECTS

**PetPals** | TypeScript, Next.js, Prisma, NoSQL, TailwindCSS, Next-Auth, Cloudinary, Figma, Vercel, NodeMailer
- Created a dating app for pets in which pet owners can create profiles for their pets to connect with others.
- Fulfilled the positions of Project Manager and Dev Lead by hosting regular meetings and providing mentorship.
- Created and facilitated the application's API routes, page routes, session management, image uploads & renders, database queries & management, and hosting & deployment.

**IMBD LSTM** | Python, Pytorch, Keras, Matplotlib
- Built and trained an LSTM Model to conduct sentiment analysis on the IMDB movie review sentiment dataset.
- Leveraged pytorch to build an LSTM model with BCE Loss and with 1 embedding, LSTM, and linear layer.
- Trained the LSTM model in batches for 10 epochs resulting in an average of 85% validation accuracy and 0.2 loss.