Sakhawat Hossain

📍 South Windsor, CT | 📞 860-960-6720 | ✉ s19hossain98@gmail.com | 💼 LinkedIn | ⭕ GitHub

Summary

Computer Science & Engineering graduate specializing in Computational Data Analytics, currently developing skills in cloud engineering and AI infrastructure within the Engineering Development Program at Travelers. Eager to apply a strong academic foundation and hands-on project experience in software development, machine learning, Data Science and AWS to a challenging role in Cloud Engineering, DevOps, or AI/ML Infrastructure. A quick learner dedicated to building reliable, scalable, and innovative technology solutions.

Experience

ETS EDP Associate | Travelers   *June 2025 – Present*

- Currently part of an internal AI infrastructure team building an AI Tech Assistant to support thousands of Travelers employees.
- Contributing to the development and deployment of Model Context Protocol (MCP) servers that manage inference workflows and facilitate integration with Claude LLM for secure, scalable internal use.
- Working across cloud-based environments (AWS) and infrastructure platforms to support real-time AI interactions and enterprise-grade reliability.
- Assisting in automation, configuration, and deployment of services using DevOps tools, scripting (Python/TypeScript), and CI/CD pipelines.
- Collaborating with cross-functional teams in an Agile development environment, participating in sprint planning, daily stand-ups, and iterative delivery models.

Projects

iOS App with Django Backend and AWS Integration | GitHub   *Spring 2024*

- Engineered a full-stack mobile solution with a Django REST Framework backend, leveraging AWS S3 for media storage and AWS RDS for the database.
- Developed a native Swift iOS frontend and containerized the backend with Docker to streamline development and deployment.

Diabetes Scan: ML Diabetes Forecasting | GitHub   *Spring 2024*

- Developed a predictive model using logistic regression and decision trees to forecast diabetes likelihood from a national health dataset.
- Performed end-to-end data science workflow, including data cleaning, preprocessing, and using visualization to identify key feature correlations.

Online HealthCare (Full Stack) | Client & Server   *Fall 2023*

- Developed a full-stack telehealth platform using Next.js and Node.js, featuring secure JWT authentication, appointment scheduling, and prescription management.
- Implemented advanced security with role-based access control (RBAC) and enabled real-time video consultations using Agora.io (WebRTC).

Travel Buddy (Full Stack) | Client & Server   *Spring 2023*

- Built a comprehensive trip-planning web app using a MERN-style stack (Next.js, Express.js, PostgreSQL) for finding travel companions.
- Designed and implemented RESTful APIs for all core features and utilized Prisma ORM to create and manage optimized database schemas.

Simple Text Editor Using C++ | GitHub   *Spring 2023*

- Created a console-based text editor in C++, implementing core data structures and algorithms for file I/O and text manipulation.
- Engineered robust error handling to gracefully manage file access errors and invalid user inputs, ensuring application stability.

Skills

- **Cloud & DevOps:** AWS (EC2, S3, RDS, IAM, VPC, CloudWatch, EFS, EBS), Docker, Kubernetes, Git/GitHub, Agile Methodologies
- **Languages:** Python, TypeScript, JavaScript, C/C++, SQL, HTML/CSS
- **Frameworks & Libraries:**
    - **Frontend & Backend:** React, Next.js, Node.js, Express.js, Django (Basics), Flask (Basics)
    - **Styling:** Material-UI, Tailwind CSS, Bootstrap, Shadcn, DaisyUI
- **AI & Machine Learning:** LLMs (Claude), Scikit-Learn, Pandas, NumPy, TensorFlow
- **Databases & APIs:** PostgreSQL, MongoDB, MySQL, RESTful APIs, GraphQL, Prisma ORM, Mongoose
- **Testing:** Jest, Vitest, Unit Testing

Education

University of Connecticut   Storrs, CT

Bachelor of Science in Computer Science and Engineering   *Graduated: May 2024*

Cumulative GPA: 3.71/4.00

Awards & Honors

- SNET Communication & Information Technologies Scholarship (2023, 2024)
- CT Roberta B. Willis Scholarship ARPA Supplement (2023, 2024)
- ESL & International Behnaz Perri Scholarship (2020)