Prince Ahmed

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Education

Duke University   **Class of 2024**
Bachelor of Science in Computer Science and Physics minor   *Durham, NC*
- **GPA**: **3.959**/4.0 and **4.0** Major GPA
- **Karsh International Scholar**: 1 of 5 out of the student body to receive a full ride merit based scholarship of $340,000.
- **Coursework**: Machine Learning, Algorithms, Advanced Networks, Databases, Special Relativity, Quantum, Probability.
- Duke Applied Machine Learning, Men Rowing Team, Modern Dance, Guitar, Photography, Low Income First Generation

Skills

Programming Languages: Python, JavaScript, Java, Swift, C, Ruby, SQL, Scheme
Technologies: Ruby on Rails, React Native, React, Docker, Git, VS Code, Jira, Nginx, SpaCy, Pandas, Linux, SciPy

Work Experience

Finesse Formula LLC - Recly   **May 2023 – August 2023**
Software Engineer Intern   *Naples, FL*
- Redesigned home screen sections to allow users to find partners and future workouts immediately.
- Reduced React Native app load time by **60%** by refactoring several initial NestJS API calls.
- Added multi language support which resolved a common pain point for customers representing **35% in ARR**.
- Spearheaded marketing to college sports club which led to **43% of new users.**
- Pioneered a back-end development environment overhaul, boosting team productivity by **25%** (number of weekly PRs).

Duke Office of Information and Technology   **May 2022 – August 2022**
Software Engineer Intern   *Durham, NC*
- Automated the time-consuming process of grant proposal review by comparing the cosine similarity of embedding vectors of 20,000+ PDFs to identify the most similar ones, facilitating funding allocation and academic collaboration.
- Led team of 6 in architecting a Transformer Natural Language Processing (NLP) pipeline that achieved a **94% accuracy score** on the tests set - over passing client's expectations and subsequently tasked with developing a web app.
- Deployed a secure and efficient web app by integrating university authorization system, configuring team's Docker image and maintained the GitLab CI/CD pipeline through a Linux VM in a DevOps role.
- Efficiently managed the software development process using Jira, conducting stakeholder interviews, defining requirements, setting acceptance criteria, and assigning tasks for weekly sprints to team members.

Projects

Restaurant Recommendation App | *React, Ruby on Rails, PostgreSQL, Swift*   **January 2023 - Present**
- Led a team of 5 in the development of an app with $7000 raised that aims to solve the difficulty that groups face when choosing a restaurant with diverse dietary preferences in a new place.
- Crafted a prototype and executed comprehensive user testing resulting in a remarkable **91% user satisfaction rate** from **600+ people** on Duke campus and London.
- Designed efficient Rails REST APIs enabling the Swift app to search, create dining groups, and voting on restaurants.
- Integrated a generative AI chatbot into the messaging platform, reducing average group decision-making time by 30%.

Machine Learning to Predict Airline Delay | *Python, SciKit Learn, Kaggle*   **October 2022 - December 2022**
- Developed web app that given a flight, it predicts a delay probability, and provides historical delay/airport data - used by 1000+ students across Duke to check their flights back home.
- Implemented Support Vector Machine ML model on 5 years' worth of US flight data to predict delays.

Research

Ring Attractor Model Research Assistant | *Python, Object Oriented*   **January 2022 - May 2022**
- Collaboratively in team of 2 to create a Python representation of a network model consisting of over 200 neurons.
- This model was developed to facilitate experiments in the lab, exploring its reactions under various conditions and stimuli. Our efforts aimed to verify the claims made in a referenced paper.

Leadership

Undergraduate Teaching Assistant   **January 2023 – Present**
- **Discerete Math** - Lead recitation for 30 students where I foster collaboration and lecture more complex material.
- **Server Side Web App** - Hold office hours and tailor new projects with the professor for a class of 70.

DevOps, DUU   **September 2022 – Present**
- Redesigned the WXDU radio website to show in real time the songs and DJs playing with song queue automation
- Developed Duke@Nite Trivia App through firebase and react.js used by 1200+ students at events to play trivia games.