

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, Languages - Italian, Spanish

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 to resolve a common pain point for customers representing **35% in ARR**.
- Worked with marketing team of 5 to spearhead partnership with college sports clubs which led to **43% of new users**.

Duke Office of Information and Technology

May 2022 – August 2022

Software Engineer Intern

Durham, NC

- Automated review of 20,000+ grant proposal PDFs to find similarities, reducing manual effort from days to under 1 hour
- Led team of 6 to architect 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 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.
- Managed team and product using Jira, conducted stakeholder interviews to define requirements, set acceptance criteria, and assigned 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 for user testing resulting in **91% user satisfaction rate** from **600+ people** at Duke 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 predicts delay probability given a flight and provides historical data.
- Helped **1000+ students** across Duke 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

- Collaborated in team of 2 to create a Python representation of a network model consisting of over **200 neurons**.
- Model opened up avenue for new experiments in the lab, exploring its reactions under various conditions and stimuli.
- Verified the claims made in a referenced paper and supported empirical evidence collected.

Leadership

Undergraduate Teaching Assistant

January 2023 – Present

- **Discrete Math** - Led recitation for 30 students - fostered collaboration and lectured more complex material.
- **Server Side Web App** - Held office hours and tailored 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.

Skills

Programming Languages: Python, JavaScript, Java, Swift, C, Ruby, SQL, Scheme

Technologies: Ruby on Rails, React Native, React, Docker, AWS, Git, VS Code, Jira, Nginx, Pandas, Linux, SciPy