

# Hammad Farooqi

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## EDUCATION

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**Princeton University** | *Computer Science B.S.E.* | *GPA: 3.97/4.00* May 2027

- Minors: Statistics & Machine Learning, Applied Mathematics, Finance
- Coursework: Algorithms & Data Structures, Machine Learning, Programming Systems, Distributed Systems, Computer Architecture and Organization, Probability and Stochastic Systems, Advanced Linear Algebra
- Activities: Tau Beta Pi, Tiger Sustainable Investment Group, Princeton Chess Team, Cap & Gown Club

## EXPERIENCE

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**Amazon Web Services (AWS) - Redshift** May 2025 – Aug 2025  
*Software Development Engineer Intern - AI/ML* Redmond, WA

- Developed a generative AI system to automatically triage test failures and publish code reviews with proposed fixes, reducing engineering time on ticket resolution by 40%, saving \$25K+ in weekly eng. hours spent on 400+ tickets.
- Integrated 5 AWS services to collect relevant logs and context to successfully process 88% of recent test failures.
- Applied multi-agent orchestration workflows with Claude models to perform root cause analysis with an average 79% accuracy across test failures.

**Ahmed Lab, Rutgers Institute for Health** May 2024 – April 2025  
*Machine Learning Research Intern* New Brunswick, NJ

- Published a customizable web platform to discover genetic markers of specified diseases and predict patient risk.
- Implemented a synthesis of 5 classical machine learning algorithms using GPU-accelerated Python frameworks (NumPy, SciPy, scikit-learn, XGBoost) to predict disease risk more accurately than any singular algorithm.
- Uncovered 18 transcriptomic biomarkers highly significant in the cardiovascular diseased population, with 3 novel in global research, used to predict disease with up to 96% accuracy.

## LEADERSHIP

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**HackPrinceton** | *Director* September 2024 – Present

- Directing a 40-person organizing team across 5 subteams in hosting biannual hackathons of 600+ participants.
- Led the Fall 2025 event, achieving the largest attendance of any Ivy League hackathon in recent history.
- Raised and managed a budget of \$80,000+ per event from industry sponsors, including OpenAI, Y Combinator, and Amazon, to fund event logistics, participant resources, marketing initiatives, and prize offerings.

**Algorithms & Data Structures** | *Teaching Assistant* September 2024 – Present

- Guide students to debug projects for class of 200+ students and help create new class material and assignments.
- Host theory review office hours to help students with course material.

**Bid** | *Founder, CTO* September 2024 – March 2025

- Founded a tech startup company building a gamified college marketplace mobile app for everyday errands.
- Built a React Native mobile app demo with a flask backend supporting a custom-tailored errand recommendation algorithm and robust MongoDB NoSQL database along with one recruited developer.
- Received investment offers of \$20,000 and \$15,000 based on initial full-stack demo presentation.

## PROJECTS

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**Internship Tracker Chrome Extension** June 2024 – September 2024

- Designed an extension that passively tracks all a user's internship/job applications through their emails.
- Leveraged a 96% accurate custom machine learning model to classify incoming emails as internship related.
- Applied OpenAI client for email entity recognition to update MongoDB database with correct internship status.

**HackPrinceton Application Website** March 2024 – August 2024

- Initiated the rewrite of a full-stack application site for an international hackathon with 2,200+ annual applicants.
- Designed and implemented a new backend architecture including a REST API, NoSQL database management, data security with JWT Authentication, mail servers, and in-app admin management and analysis features.

## SKILLS

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**Programming Languages:** Python, Java, C, C++, JavaScript/TypeScript, SQL, ARMv8 Assembly, Go/Golang

**Frameworks:** NumPy, SciPy, scikit-learn, XGBoost, SHAP, Pandas, TensorFlow, PyTorch

**Developer Tools:** Git, Docker, Kubernetes, Unix/Shell, Jenkins, Jira, Postman, Relational Databases (SQL)