

Fauzan Rahman

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EDUCATION

Stanford University

Stanford, CA

B.S. in **Computer Science** (Systems and AI Concentration) — GPA: 3.75/4.00

Sept. 2024 – June 2027

EXPERIENCE

Amazon Web Services (AWS)

September 2026 – December 2026

Software Development Engineer Intern

Seattle, WA

- Incoming Fall 2026 – EC2 Nitro

Apple

June 2026 – September 2026

Software Engineer Intern

Cupertino, CA

- Summer 2026 – Siri AI

Amazon

June 2025 – September 2025

Software Development Engineer Intern

San Francisco Bay Area, CA

- Built an **idempotent indexing system** using AWS Lambda, real-time stream processing (Kinesis), and NoSQL database (DynamoDB) to process and store usage metadata for a consistent, **duplicate-free writes at scale**
- Designed and deployed a **scalable data ingestion pipeline** that processed **over 3M records in 15 minutes** to associate cloud resources (“subscriptions”), enabling identity-to-subscription association for service migrations
- Engineered a **scheduled ETL job (Extracting, Transforming, Loading)** that processes **over 150K daily raw access logs** into structured records, streamed via a real-time data stream to a downstream processing service
- Led the launch of a **new RESTful API into production** and developed the corresponding **front-end user interface (UI)**, allowing ML engineers and researchers to audit historical resource usage with pagination support

MPC Foundation

August 2023 – May 2024

Data Engineer Intern

Monterey, CA

- Expanded and **optimized a targeted database** for fundraising outreach and donor solicitation campaigns through the addition of **1,241 new constituents**, marking an **expansion of the database by 148%**
- Streamlined and refined the **management of 29,998 records** using Pandas Python library and Google Sheets
- Implemented **automation techniques** to optimize workflows, reducing operational time from **240 hours to 60 hours** in adding a yearly batch of constituents, enhancing the **execution time by 375%**
- Executed a **database cleanup of 5,905 records** with **7 hours execution time** using Pyperclip and Pyautogui

PROJECTS

Soccer Performance Prediction | Python, Pandas, Probabilistic Models, API Integration

- Developed a **probabilistic framework** to simulate soccer match outcomes and compute conditional player prop probabilities, leveraging Poisson, Binomial, and Multinomial distributions to **model goal likelihoods** based on historical scoring shares, match-level features such as home/away performance and offensive/defensive strength

First Shift in the NBA | Machine Learning, scikit-learn Python library

- Engineered a **sports-predictive model** with a team of three to **quantify the relationship** between NBA players' early-game performance and their overall game impact, achieving a moderate R^2 of under 0.2 considering the unpredictable nature of an NBA player performance

Hey Sara! | HTML, CSS, JavaScript

- Launched a personal website aimed at providing **encouragement** and support to peers **experiencing burnouts** or challenging days. Users prompted to enter a number (1-324) to receive a personalized words of wisdom

TECHNICAL SKILLS

Programming Languages: C++, C, Python, Java, Kotlin, SQL, Typescript, R, Smithy (IDL), Javascript, HTML/CSS

Developer Tools: CI/CD, Git, npm, gradle, maven, Junit, JMockit, AWS, VS Code, IntelliJ IDEA, R-Studio

Tech Stacks: DynamoDB, AWS Lambda, Kinesis, S3, Redshift, Raiser's Edge NXT, Scikit-learn, Pandas, NumPy

Relevant Coursework: Programming Abstractions, Computer Organization & Operating Systems, Probability for Machine Learning, Design & Analysis of Algorithms, AI Techniques and Principles, Mathematics of Sports, Statistical Learning & Data Science, Languages to Information (NLP), Computer & Network Security, Probability & Gambling

Likes: Soccer (Real Madrid), NBA, MMA, Better Call Saul, HIMYM, Radiohead, The Strokes, FIFA, K-Drama, Japan