

Mahir Piyarali

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I was the highschooler who **cold emailed** journalists until one let me shadow them.
I was the sports nerd who **started my own** baseball **analytics** blog and built a following.
I was the full stack intern who **redesigned** the business's **deployment pipeline** and moved it to the cloud.

EDUCATION

University of Michigan, Ann Arbor, MI

Expected Graduation: May 2022

Bachelor of Science: Major in **Computer Science**

Relevant Coursework: Machine Learning, Web Systems, Computing Security, Conversational Artificial Intelligence

Student Orgs: Google Developer Student Club, Rec Sports Student Supervisor, Club Fencing Team, Club Running Team

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript/TypeScript, GoLang, SQL, R, HTML/CSS

Technologies: Kubernetes, Flask, React, Node, AWS, Docker, Hadoop, Helm

Tools: PostgreSQL, MySQL, Git, F5 BIG-IP, nginx, Jira, Postman

Interests: Full Stack Development, Cloud Computing, SaaS, Natural Language Processing, Distributed Systems

EXPERIENCE

Software Engineering Intern, F5 Networks

May – August 2021

- Migrated application deployment pipeline from on-prem to cloud-first
- Developed both the backend and frontend for the new system
- Engineered REST API endpoints in **GoLang** and databases in **Postgres**
- Redesigned the front end in **React** and **TypeScript** for an increased ease of use for clients

Research Assistant, University of Michigan School of Public Health

October 2019 – May 2020

- Used historical medical records and **R** to perform time-series analysis on the spread of Gonorrhea and Typhus
- Visualized model in **Python** with **pandas** and **ggplot**
- Impact: highlighted potential causes for seasonal sickness

Blog Writer and Co-Founder, Balk the Talk

July 2019 – July 2020

- Co-founded baseball blog with a focus on creating content using baseball statistics
- Mined statistics from Baseball Reference and FanGraphs to predict player and team performance in MLB
- Built a following of 110 Twitter followers and blog readers

PROJECTS

Wikipedia Search Engine, EECS 485 (Web Systems) Class Project

April 2021

- Designed search engine for over 2500 Wikipedia articles; Calculated results using TF-IDF and **Hadoop**
- Customized interactive front-end in **React**, **HTML** and **CSS**; Implemented REST APIs in **Python** using **Flask**

Instagram Clone, EECS 485 (Web Systems) Class Project

February 2021

- Implemented REST APIs in **Python** with **Flask** to work alongside custom **MySQL** database schemas
- Constructed the front-end in **React** and **JavaScript** with features like dark mode and infinite scrolling
- Deployed the application using an EC2 instance on **Amazon Web Services**

EXTRACURRICULAR ACTIVITIES

TEDx Speaker, TEDx UPrep

May 2017

- Invited to give [TEDx talk](#) focused around an editorial I wrote for my high school newspaper

Trivia Show Quarterfinalist, NBC Entertainment

June – August 2021

- Competed in NBC's trivia show [Capital One College Bowl](#), representing the University of Michigan
- Awarded \$10,000 scholarship for finishing as a quarterfinalist