

Mohammad Bachcha

mohammad.bachcha1@gmail.com | [/in/mohammad-bachcha](https://in/mohammad-bachcha) | github.com/mibachcha1

EDUCATION

Northeastern Illinois University
Master of Science in Computer Science

Aug. 2023 – May 2025
GPA: 4.0/4.0

DePaul University
Bachelor of Science in Computer Science

Sep. 2020 – Mar. 2023
GPA: 4.0/4.0

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, NoSQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Django, Springboot, JUnit, WordPress, FastAPI

Developer Tools: Git, Docker, Amazon Web Services, Visual Studio Code, IntelliJ, Eclipse, MySQLWorkbench

PROJECTS

Personal Finance Tracker | *Python, FastAPI, React, Sqlite*

Jun. 2024 – Present

- Spearheaded the development of a full-stack web application using FastAPI and React to streamline personal finance management; resulted in a 50% increase in efficiency over manual methods.
- Engineered a REST API leveraging FastAPI and Sqlite Database, enabling real-time tracking and storage of individual spending and saving; enhanced data accuracy by 40%.

SportsApp | *Python, Django, PostgreSQL, AWS, Nginx*

Apr. 2023 – Aug. 2023

- Launched a real-time platform for NBA enthusiasts, engaging 50+ users with live scores, play-by-play updates, and discussions regarding ongoing games.
- Engineered NBA API integration to retrieve detailed live and historical data for over 1,000 NBA games, enhancing analytics capabilities.
- Implemented chat functionality using Django Channels and Websockets, facilitating real-time communication with 500+ messages stored and exchanged.
- Deployed the application on AWS EC2 and configured NGINX as a reverse proxy, achieving 99.9% uptime and scaling to handle 500+ concurrent users.

Price Comparison | *Python, Django, PostgreSQL, AWS, Nginx*

Jan. 2023 – Mar. 2023

- Managed a team in delivering a web application that enabled users to compare prices between UberEats and DoorDash, improving user decision-making by 35%.
- Demonstrated excellent collaboration skills working with the team and stakeholders to ensure the application met business requirements, reducing user-reported issues by 75%.

EXPERIENCE

Software Engineering Fellow

Jul. 2024 – Present

Headstarter AI

Remote

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, and StripeAPI with 98% accuracy as seen by 1000 users.
- Directed the development of projects from design to deployment, guiding 4+ engineering fellows using MVC design patterns.
- Mentored by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns.

Data Analyst

Jun. 2022 – Present

Gandhi Foods

Skokie, IL

- Conducted thorough analysis of multi-year sales data to identify the top three months for product volume, improving sales forecast accuracy by 15%.
- Created comprehensive data visualization tools to represent inventory trends spanning multiple sales channels, reducing data analysis and reporting time by 30%.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

In Progress

Amazon Web Services