Rajvi Mehta

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EDUCATION

Rutgers University - New Brunswick, NJ   Sept 2015 - May 2019
B.S. Computer Science
Computer Science Honors Program
Relevant Courses: Internet Technology, Graduate AI, Distributed Systems, Systems Programming, Algorithms, Software Methodology (OOP), Databases, Probability, Programming Languages, Computer Architecture, Data Structures *(ranked in top 2%)*, Data Literacy, Intro to CS, Discrete Math, Differential Equations, Multivariable Calc, MatLab, Digital Logic, Pedagogy

SKILLS

Developer Languages: Python, Java, C#, Powershell, YAML, Scala, React, R, SQL, Kusto, HTML
Software / Tools: Azure, Kubernetes, Apache Spark, Databricks, Redis, Gurobi, Grafana, SSMS, IIS, Git, Visual Studio, VS Code

WORK EXPERIENCE

Microsoft - Software Engineer Redmond, WA

Software Engineer on Azure AI/HPC   March 2023 - now
- Scaling and optimizing Azure VMs to use Nvidia GPUs for running AI models.
- Working with OpenAI to run AI models on VMs.

Software Engineer on Azure IoT Connect Vehicle Platform   April 2020 - March 2023
- Optimized the mobility platform, which processes streaming data from vehicles. Reduced the latency and saved costs for the team by using data-driven decisions to use Kubernetes and scale resources correctly. Implemented build and deployment ADO pipelines and built Spark streaming and batch jobs. Performance tested the platform using production sized workloads to compare Kubernetes, Databricks, and Apache Spark resource sizes. Determined prod configs to maximize messages while minimizing latency.
- Created simulated vehicles that generates demo data for the analytics pipeline and AI/ML models. Solved lack of data due to covid.
- Created dashboards and alerts, which monitored metrics on Grafana and Kusto.

Software Engineer on Dynamics 365   Aug 2019 - April 2020
- Full-stack developer in D365 Finance and Operations for retail companies to track orders and inventory.
- Implemented and delivered a critical feature with E2E tests requested by customers for email receipts for GA.
- Joined on call rotation where I mitigated, resolved, and RCA'd several incidents.

Software Engineer Intern on Dynamics 365   May - Aug 2018
- Full-stack developer in D365 for Distributed Order Management (DOM), a platform that creates optimized shipping plans between warehouses, stores, and customers for large retail companies.
- Delivered different scheduler models using a proprietary integer programming optimization solver, and collaborated with MS Research to create constraint satisfaction models.
- Implemented high priority features in from end-to-end, deployed into the public release, and demoed finished project to the team.

PERSONAL PROJECTS

Text Me(me) - Best Twilio Hack and Best RBC Social Hack Award - HackRU XIII, Rutgers University   Oct 2017
- Built web app Text Me(me) that generates message from user's voice and texts the meme (image with text) to recipient
- Used PyAudio, OpenCV, Twilio's Text Messaging API, and Flask.

Safety Net - Placed in PennApps Hackathon - UPenn   Sept 2017
- Placed as Top 30 out of 158 for creating mobile and web app 911 Safety Net, which automatically sends required information to first responders to reduce call time in emergency situations.
- Used JavaScript, Google Maps API, Firebase, and Cordova

Swipr - Best Rutgers Hack Award - HackRU, Rutgers University   April 2017
- Designed iOS mobile application Swipr to connect students with extra meal swipes to those who need food
- Used Swift, Firebase, Vonage SMS Messaging API, and Rutger's Dining Hall APIs

LEADERSHIP

Microsoft Intern Leader   May - Aug 2022
- Led events for a group of 25 interns and mentored them throughout the summer.

CS Teaching Assistant - Rutgers University   Sept 2016 - May 2019
- Independently led Data Structures recitations, work with the professor to add new exercises to the course, as well as create material and lead study groups in Java for 3 hours weekly. Held extra help hours and review sessions with 150+ students.
- Independently led Intro to CS recitations and study groups in Java for 3 hours weekly
- Tutored students for engineering classes including MATLAB, statics, and physics

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