

Desmond Bush

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New York, NY

Technical Skills

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

Frameworks & Libraries: React.js, Express.js, Node.js, Next.js, FastAPI, Pandas, Tailwind CSS, Spring Boot

Developer Tools: Bash, MongoDB, PostgreSQL, Docker, CI/CD, Agile, Jira, Git, Apache Kafka, Oracle, AWS

Experience

JPMorgan Chase & Co.

August 2023 - Present

Software Engineer

New York, NY

- Developed, tested, and deployed applications for high frequency trading monitoring with minimal latency
- Automated outage scenario handling with custom scripts, cutting execution time by 60% for our engineers
- Designed scalable applications that monitor server and network health to ensure trading traffic succeeds
- Integrated existing Flask programs from across 3 continents into our North American application version
- Optimized backend processes for saving disk space and RAM usage, cutting maintenance costs by 10%

JPMorgan Chase & Co.

June 2022 - August 2022

Software Engineer Intern

Plano, TX

- Utilized Apache Kafka to better store and manage events and data from several thousands of phone calls
- Administered stored procedures in Oracle SQL Developer databases for use in backend development
- Renovated legacy code for future utility in making Java based onboarding applications
- Participated in documentation and system design for future use for engineers
- Collaborated with senior developers in creating efficient and scalable data storage solutions

University of Houston

January 2020 - November 2020

Undergraduate Researcher

Houston, TX

- Gathered and organized data concerning the propensity for success Black male students had in engineering
- Applied statistical analysis methods to data for creating visualizations, and for making algorithms
- Created graphs to display data and help with creating research papers

Projects

Math Practice Webapp [mathxp.vercel.app]

August 2024

- Developed a full-stack math problem generator with FastAPI, React.js, and Next.js that allows users to practice math problems like calculus, algebra, linear algebra, and statistics
- Designed with Tailwind CSS, and integrated dynamic problem generation using Python libraries like SymPy
- Created a RESTful API that properly handles CORS for seamless interaction of frontend and backend

Rewards System App [Chewy Hackathon]

January 2022

- Created an app using android studio and back4app to analyze user purchases and add reward points on purchases for an in-app marketplace
- Designed reusable code for future app scalability, and provided UI mockups as examples
- Won 1st place in the Chewy Hackathon 2022 against 9 other competitors

Education

University of Houston

June 2023

B.S. Computer Science

Houston, TX