BARATH KOOTTALA

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EDUCATION

University of Illinois at Urbana-Champaign *Aug. 2016 – May 2020*
B.S. Computer Science + Linguistics

WORK EXPERIENCE

Bloomberg, Software Engineer – Python, TypeScript, Full Stack, New York, NY *Sep. 2022 – Present*
- Designed and built the Eurex Ingestion Pipeline, grabbing data from their GraphQL API and merging it with premarket data, achieving a 98% performance improvement by using batching techniques, allowing access to Block Threshold data for securities downstream
- Redesigned Security Coverage ETL pipeline, shifting from a manual to a Kafka-driven, event-based architecture with 99% uptime, delivering enhanced security coverage and bringing in new distributed architecture
- Developed standalone microservice-based Data Technology Pipelines (DTPs) that integrate seamlessly into multiple data flow recipe pipelines (DFRs), enhancing modularity and scalability for data transformations for multiple exchanges' futures/options security data
- Created a dashboard to track coverage, availability and trends in the data of 27 million futures and options securities

JPMorgan Chase & Co, Software Engineer – Full Stack, Chicago, IL *Jul. 2020 – Present*
- Developed Swift code for JPMorgan's new Commercial Card iOS app that allowed cardholders to interact with their corporate accounts, view history, and record new cash/mileage transactions
- Ensured ADA compliance by writing all text field elements to be compatible with screen reader applications, allowing users with visual impairments and disabilities to utilize the app without limitations
- Created a React frontend and Java backend web app for virtual credit card users to access up to date account information directly from the database, circumventing productivity loss when the legacy web application was experiencing downtime
- Coordinated with the product and design teams on requirements and finalized specs to assure stakeholder requests were met
- Mentored and onboarded 2 new engineers on the team by answering questions, explaining the tech stack, illustrating the version control system on Bitbucket, and teaching the CI/CD pipeline for code deployments and releases

BP, Software Developer Intern – Java, Automation Anywhere, Chicago, IL *May 2019 – Aug. 2019*
- Trained machine learning robotic process automation bots to parse PDF documents for data regarding supplies and materials for oil production, cutting down required time for information retrieval from a document from 2 minutes to 2 seconds
- Constructed a Java Application to parse CSV documents and populate data directly into a SQL Database by utilizing the JDBC API and Opencsv library, eliminating the need to open documents, and manually type information for information transfer

State Farm, Strategic Resources Intern – Champaign, IL *May 2018 – Aug. 2018*
- Researched emerging connected car and automated vehicles and showcased upcoming trends and findings at headquarters; research showed AI preventing human error would lead to large reduction in car accidents that would affect pricing models

PROJECTS

Album Artwork App – Python, Flask, JavaScript *Feb. 2024 – Present*
- Built a Python Flask app that would get my current song playing from the spotipy api and proceed to dynamically load and refresh the album artwork of the current song, while changing the color of the html canvas to the matching color palette of the album

GitHubProfile App – React Native, GraphQL *Jan. 2020 – Feb. 2020*
- Built a React Native App utilizing GraphQL to query a user and retrieve information including followers, following, and repositories

ACTIVITIES

Girls in the Game – HTML, CSS, OBS Studio, Software Engineer *Nov. 2020 – Jul. 2021*
- Collaborated with a nonprofit to craft a social media platform allowing 2,500 members to communicate virtually
- Edited web templates using HTML and CSS to customize and cater the web app to the client's vision, emphasizing safety and privacy
- Created an instructional video in OBS Studio for the participants and coaches, highlighting the functionality of the platform and the capabilities for each user, the participant, and the coaches/moderators

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, Java, JavaScript, Swift, React, React Native
Developer Tools: Docker, Git, Spring Boot, Xcode, CI/CD Cloud Foundry, JUnit, Jenkins