Josh Kim

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Education

Georgia Institute of Technology
B.S. with Highest Honors in Computational Media *GPA: 3.90* - Media and Interaction Design

Work Experience

Humana - *Full Stack Engineer II* (Virtual) July 2023-Present
- Integrated Pyspark with Databricks, increasing application transformation efficiency from 32.1 seconds per application to 11.7 seconds
- Developed processes to send over 100k+ transformed applications to internal Managed File Transfer and Azure Data Lake Storage
- Modernized a RESTful API incorporating .NET and MongoDB backend databases, fortifying software solutions with enhanced robustness and scalability, resulting in a 50% decrease in latency and a 25% increase in system throughput.
- Created an ETL process to automate application transformations from Kafka topics using Databricks workflows, resulting in a 32% reduced wait time for enrolling customers
- Monitored and logged over 100k transformations, file transfers, and workflows via Splunk, increasing operational efficiency and transparency for business by 12%
- Refactored Kafka topics in Avro format, improving data transfer performance and reducing cloud computing resources by 40%
- Engineered processes to comply with data governance and purge old files in Azure Data Lake Service, saving 23% of blob storage in the cloud every month
- Actively engaged in Agile practices (daily scrums, biweekly planning, retrospectives) and optimized Azure DevOps for tracking iterations, achieving a boost in team productivity and a 95% on-time delivery of deliverables

The Herd Startup - (Atlanta, GA) December 2022-April 2023
- Collaborated in the creation of a test audience of 200+ users for MVP evaluation with the University of Arkansas
- Prepared and executed launch protocols, managed a test environment and collected feedback from 200+ users
- Launched beta app in TestFlight to monitor in-app performance and track user engagement, reaching 200+ beta testers and achieving a 70% user retention rate over a 30-day period
- Analyzed data from Google Analytics, resulting in a 25% improvement in user engagement and providing actionable insights to inform strategic decisions for leadership and investors

Projects

Personal Photography Print on Demand Website
- Built a Next.js website hosted and deployed on Vercel, leveraging Vercel Analytics for performance monitoring. Achieved 99.9% uptime and reduced page load times by 50%
- Utilized Tailwind CSS, Framer Motion, and Headless UI to build a responsive and interactive front end, increasing user engagement by 40%
- Implemented a Flask backend hosted on Heroku, adhering to REST API principles and supporting over 10,000 API requests per month
- Integrated Stripe, Prodigi, and SendGrid APIs to enhance e-commerce functionality: implemented secure transaction processing with Stripe, managed order printing and shipping with Prodigi, and automated customer communications with SendGrid, achieving a 99% email delivery rate and improving scalability
- Secured API keys by managing them with environment variables, ensuring the project's security and integrity
- Prototyped in Figma to streamline the design process, reducing development time by 30%
- Maintained a GitHub repository for version control, managing over 100 commits

Auto Industry Portal iOS and Android App
- Programmed an iOS and Android app supporting 5,000+ users to create events for the car community based on location and interests
- Created the app with a React Native front end and a Firebase backend to support 5,000+ user accounts and 10,000+ community events
- Integrated Google Maps API to provide a map interface displaying up to 1,000+ community events nearby
- Tested with Expo Go on iPhone, conducting daily test sessions to ensure app stability and performance
- Won third place out of 100+ teams at Georgia Tech junior design exposition

Languages/Tools: Python, Pyspark, Databricks, MongoDB, .NET, Splunk, SonarQube, JavaScript, Next.js, TypeScript, Flask, Java, PostgreSQL, Firebase, Azure, ADLS, Confluent, Postman, Google Analytics, React/React Native, Expo Go, TestFlight, GitHub, Pytest, Vercel, HTML, CSS

Relevant Concepts: Cloud Computing, AGILE/SAFE, Object-Oriented Programming, Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Organization and Programming, Systems and Networks, Databases, Linear Algebra, Discrete Mathematics