Junwon Jung

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Professional Experience

Homethrive
Software Engineer   April 2020 – Present
• Established SMS texting service in React.js, golang on backend, brought occupation of 90% of main communication medium
• Initiated CICD integration test using customized Docker image, resulting testing upgrade from unit testing based to integration testing, enhancing code coverage by 30%
• Built realtime service by utilizing Firebase FCM, Apple APNs removing maximum waiting time 30 seconds to none
• Founded Makefile utilization to the team to boost development and test workflow, reducing 80% of initial startup
• Formed end to end data migration shell script to ease debugging, decreased 80% of average total debugging time
• Designed efficient permission route level wrapper service using golang to secure api server from external attacks, deducted security development time by 95%
• Accelerated build time of cloud services such as AWS Lambda, IAM, S3 by 90% from manual processes by importing Terraform into team

Tata Consultancy Services
Software Engineer
EDH (Enterprise Data Hub)   September 2018 – April 2020
• Extracted multiple data sources using Talend, custom shell script to migrate to cloud based data warehouse, AWS Redshift, enhancing single data sourced analytics to multiple
• Saved time of creating status reporting dashboard by 15 hours each month by creating daily reporting service using Python
• Optimized test clusters by removing unnecessary ones from 6 to 2 cost, saving total cost of $21,600 per month
• Developed bug alerting service using Python, which alerts into email when data extraction fails, reducing monitoring time by 80%

Projects

PhiloUS   August 2020 – Present
• Established commercial website using React.js, Python Flask, PostgreSQL for business to automate user data insertion or payment from manual jobs, boosted administrative workflows by 90% of input processes
• Formed automatic applicable coupon systems from manual coupon utilization, removing manual price calculating time with having 100% accuracy
• Cooperated with UI/UX designer to understand better web flows and visual looking in perspective of client users, making huge improvements on user satisfactions
• Migrated cloud platform from Heroku to AWS with CICD config changes resulting price changes by 70% decrease, performance increased by 50%
• Led the project to separate the roles of the development process with teammate enhancing work efficiencies with same task time to be done from 6 months to 1 month
• Optimized legacy backend queries by deducting database calls, making 2 seconds query end to end time to 0.5 seconds

Education

University of Illinois, Urbana Champaign   May 2018
B.S. in Computer Science and Mathematics   Major GPA: 3.34/4.00

Skills

Frontend: React.js (TypeScript), Material UI, Bootstrap
Backend: Flask (Python), Gorilla Mux (Golang), Express.js, JSP
DevOps: Git, Docker, Kubernetes, GitHub Actions (CI/CD), Terraform
Cloud (AWS, Heroku): EC2, Elastic Beanstalk, ECR (Docker), RDS, IAM, Lambda Database: SQL (MySQL, PostgreSQL, Oracle, SQLite), NoSQL (Mongo, ElasticSearch)
Programming language: Python, Javascript(Typescript), Golang, Java, C++, PHP