

# Junwon Jung

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## Professional Experience

### Homethrive

#### Software Engineer

April 2020 – Present

- Built video and photo uploading/sharing services to upload avatars or video files with proper sized of thumbnails
- Brought Twilio Video/Phone/SMS to optimize communication activities of internal staff members with client members
- Accelerated integration testing processes using Docker containerized environment, having existing data inserted
- Utilized Github Actions for CICD operations to test, build, lint prior to staging/production deployment
- Guided overall programming/commit policies to optimize code readability, traffic reduction, and memory management
- Built push notification service using Firebase Cloud Messaging and Apple push notification for real time call/SMS receive
- Introduced Makefile usages to the team to boost development and test workflow with code coverage reported in local
- Formed migration service of secured data sanitized in production database for third party data analytics company
- Incorporated analytics service to company platform, to let directors understand current state of customers and staffs' activities

### Tata Consultancy Services

#### Software Engineer

#### EDH (Enterprise Data Hub)

September 2018 – April 2020

- Orchestrated to unify multiple Oracle ERP databases to single data warehouse for non-prod environments using AWS Redshift
- Reduced time to create service reports by 15 hours each month by automating daily system status reports using Python, SQL and Google Sheets API
- Optimized test server running cost by saving \$21,600 per month by decreasing 6 clusters running into 2 testing clusters
- Developed python scripts to gather DB information of non-prod environment and visualized data on Google Sheet using Google Sheet API, pandas

## Projects

### PhiloUS

August 2020 – Present

- Established commercial website for business, using Material UI and SCSS in React.js, Flask for backend, PostgreSQL integrated
- Linked third party payment service to automate purchasing and refunding, and notify to admin email containing purchase/refund information
- Formed coupon systems to discount by absolute or percentage value based with no price mismatches
- Cooperated with UI/UX designer to understand better web flows and visual looking in perspective of client users
- Migrated cloud platform from Heroku to AWS with CICD config changes to reduce price with better efficiencies for services
- Led the project to separate the roles of the development process with teammate, to make certain and faster workflow
- Optimized legacy backend logics where application server queried to database server needlessly a lot, removed multiple queries calling statements to take off burden from DB server

### whoami

Jan 2019 – August 2020

- Worked on frontend using React.js as frontend framework combined with Redux.js, Reactstrap for frontend designing
- Developed to combine user's social media into one social media platform where users can see follow users' Facebook and Instagram photos and videos, Twitter's tweets, and listen Spotify music
- Implemented responsive whiteboard letting users drag and drop contents from social media using interact.js, and stored the location of whiteboard's coordinate and size of contents into MySQL database

## Education

University of Illinois, Urbana Champaign

B.S. in Computer Science and Mathematics

May 2018

Major GPA: 3.34/4.00

## Skills

Frontend: React.js (TypeScript), MUIv5

Backend: Flask (Python), Gorilla Mux (Golang), Express.js, PHP, JSP

DevOps: 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)