

Christy Choi

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PROFILE

Passionate and experienced software engineer with two years of commercial experience, capable of working within Back-end, Web Applications, and Business Service (API) development. I gained knowledge and expertise in design, development, testing, deployment, and maintenance of software systems while working as a Fullstack Java Developer at a stable healthcare startup and a Django Developer at an early stage platform startup.

I am adept at bringing forth my skill set in working with cross-functional teams and contributing to the company's growth. I am proficient in various platforms and languages. I have worked and lived in the UK, Europe, and the US, so I speak perfect English which sets me above many IT talents. I have great communication skills and I'm very easy to work with. I enjoy meeting clients, solving complex problems, and using my IT skills to deliver finished products.

PROFESSIONAL AND TECHNICAL SKILLS

Python, Django Rest Framework

- able to write different data structures for efficient usage
- developed with REST APIs, CRUD, Signals, Channels(Web Socket), Selenium, Pytest, etc
- comfortable with both ORMs, RDBMS and query tuning

Java, Spring, HTML, CSS, Bootstrap, JavaScript, JQuery, Next.js, PostgreSQL, MySQL, MariaDB, Oracle, HeidiSQL, AWS (Elastic beanstalk, EC2, ECR, ECS, S3, RDS, Route53, IAM, MFA, Certified Manager), Docker, Github Actions (CI/CD), Linux, Redis, Git, Github, VSCode, Postman

EXPERIENCE

PYTHON DEVELOPER

Ugly Stone

Jan 2021 – Present

- built the entire production-level backend application for a recycling trading platform and successfully deployed and handled all the coding and deployment issues on my own as the only backend developer of the team
- ditched and rebuilt multiple times with different approaches as the early stage startup delivers fast, vague, unstable requirements—eventually helped me trying and learning various ways for developing the backend application.
- designed software architecture and developed jwt user authentication, CRUD for each categories, best product lists logic, pagination, search filter logic, report and block list, upload and remove S3 image using efficient data structure
- developed an asynchronous chat system and notification system using Django Channels(web socket), Redis, Elasticache
- designed infrastructure architecture, and deployed using AWS(Elastic beanstalk, Elasticache, EC2, S3, RDS, Route53, ECS, etc), added security with IAM, MFA and Certified Manager, dockerised the application with dockerfile, tracked and lowered AWS cost

- generated documentation for REST API using swagger and closely worked with the frontend developer to deliver REST APIs.
- used redis for getting each post to optimise the performance from +100ms to 10~15ms
- tested using pytest to increased test coverage to 95% and used django seed to pregenerate data
- designed and modified database architecture as requested and separated test DB and production DB

Tools used: Django, Django Rest Framework, Python, Git, AWS, Docker, EC2, Elastic Beanstalk, ECS, ElastiCache, MySQL, Postman, VSCode

Side Project: Pribos - Freelancer Assistance Service

July 2022 - September 2022

- designed software architecture and built a backend application for freelancing translators to manage their schedule and income efficiently with the team of 4 (2 frontends, backend, machine learning)
 - developed Google social login, jwt user authentication, CRUD
 - customised admin and exception handlers and attached swagger for the frontend
 - ensure PEP8 style code quality by using flake8
- used git to control version
- deployed with docker, ECR, EC2, ECS
 - automated build for frontend developers and deployment process using github actions

Tools used: Django, Django Rest Framework, Python, Git, AWS, Docker, EC2, ECR, ECS, Github Actions, PostgreSQL, Postman, VSCode

FULL STACK JAVA DEVELOPER

InterMD

May 2021 - Dec 2021

- built fullstack web and mobile applications simultaneously by using JQuery and Java Spring
- analysed thousands of lines of legacy codes to add new features and refactor as the company had extremely lengthy and complicated codes for all the projects

Tools used: Java, Spring, JavaScript, JQuery, MySQL, HTML, CSS, SVN, Git, Eclipse

Project: Suggest Recommend Page & Management Page

October 2021 - December 2021

- built pages for users to submit a suggest form and management page to check and reply
- Designed database architecture and added web and mobile features such as excel download, send text message, send notification, AWS S3 file upload, search filter, pagination, ajax, and CRUD
- closely worked with the tech manager, senior developer, PM, UI/UX designer, and publisher

Project: Morpheme Analytics Tool

July 2021 - September 2020

- designed UI and the software architecture, and preprocessed data from ElastiCache and applied the best algorithm method to find keywords for each posts and matched with the most similar page
- build pages for management to create, view, edit, refresh, delete the keywords and the related page links

Project: Meetingroom Booking Service

May 2021.5 - July 2020

- designed the UI and the database structure, and built the weekly and daily scheduler with a booking feature all on my own and refactored the finished project

TRADING EXECUTIVE

The Hut Group

October 2018 - July 2019

- drove efficient analytics reporting on extremely large databases by using SQL

CERTIFICATION

Engineer Information Processing (National Technical Qualification Certificate)

August 2021

- The national certificate examines computer science knowledge(requirement, UI, database, development, security, test, network, and coding)

EDUCATION**Intensive Web Development Course**

May 2020 - December 2020

Bootcamp Project: Dolbommon - safe babysitter matching platform service

- Designing database and UI for search page, profile page, certification page, like page, transaction api, map api, file upload, pagination, ajax, search filter, and CRUD
- Skills Acquired: Java, Spring JavaScript, JQuery, SQL, Oracle, HTML, CSS, Bootstrap, Git, Eclipse

Ewha Womans University

International Business and Economics

March 2014 – August 2018

Bellevue Christian School

September 2009 - June 2013

Grades and Achievements: 3.98/4.0 GPA, National Honor Society, High Honor Roll

- AP Calculus A 5, AP Calculus B 5, TMSCA(Texas Math and Science Coaches Association) 1st place, Washington State Math Competition 1st Place