

JAE HO CHOI

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FULL-STACK SOFTWARE ENGINEER

EDUCATION

EMORY UNIVERSITY

Aug 2016 – Dec 2022

B.S. IN COMPUTER SCIENCE

Atlanta, GA

TEACHING ASSISTANT

Aug 2022 – Dec 2022

- Assisted Dr.Xiong with **Machine Learning**(CS334) by hosting weekly office hours to **guide students on algorithms** including **KNN, Decision Tree, Random Forest**, etc

CERTIFICATION / SKILLS

- AWS Certification** – Associate Solutions Architect
- Java, Python, SQL, JavaScript, HTML, CSS
- Angular, React, Node.js, .NET Framework
- Scikit-learn, Pytorch, RESTful API
- Machine Learning, Agile Methodology, Git
- Windows/Mac/Linux familiarity

WORK EXPERIENCE

GAIN

Feb 2023 – Current

FULL-STACK SOFTWARE ENGINEER

Atlanta, GA

- Led a project developing a **direct monetary negotiation tool** for both **internal and external customers** on the company's web platform, leading to a **30% increase in daily handled cases** for internal clients, through the utilization of **Angular, .NET Framework, MySQL, Redshift, and Salesforce**
- Pioneered the implementation and integration of AI-driven chatbot utilizing a **GPT-3.5 turbo API** and customized prompt that generates **tailored data-driven responses, redirects to requested pages, and sends API requests**
- Orchestrated the implementation of an **automated ingestion and reconciliation pipeline, optimizing data alignment** across clients' ground truth, Redshift, and Salesforce through Python, EC2, S3, resulting in a **30 minute daily ingestion time reduction and 4 hour weekly analysis efficiency**

AMAZON WEB SERVICES(AWS)

May 2022 – Aug 2022

SPECIALIST SOLUTIONS ARCHITECT INTERN

Seoul, South Korea

- Architected an analytics solution to aid a user-case of **real-time anomaly detection analysis** by centralizing **data warehousing(Redshift)** with **ML platform(SageMaker), real-time streaming(Kinesis), and visualization(Grafana)**
- Designed an internal workshop on **automatic data ingestion architecture** to enable an **automated lifecycle of data ingestion, data processing, and ML retraining within 4 hours** by using **AWS Step Functions and Amazon Lambda**
- Established **dynamic guidelines and recommendations** utilizing an **internal decision-tree based tool** that encompasses AWS Analytics services, programs, and specialists to **optimize architecting time** coming from abundant resources

CN AI

May 2021 – Aug 2021

AI ENGINEER INTERN

Seoul, South Korea

- Initiated and engineered a **metaverse AI virtual human generation pipeline** and **prototype** using deep learning-based **generative models** for **text-to-speech, face generation(GAN), and lip-sync**
- Improved a skin cancer detection model's **accuracy** from **70% to 89%** by preprocessing data to **resolve class imbalance** and remove skin hairs
- Achieved **39.1 mean Average Precision** for **real-time endoscopy gastric cancer** detection utilizing and finetuning EfficientDet object detection model

PROJECT EXPERIENCE

REXTEND – LEADER | FULL-STACK ENGINEER

July 2023 – Current

- Led the development of a **Chrome extension** enabling **tailored summarization of job board pages**, streamlining the user experience by **offering concise descriptions** and **optimizing recruitment efficiency** through targeted applications by utilizing **React, Node.js, GPT 3.5, and Mongo DB**

TIE YOUR KNOT(KNOT) – CO-FOUNDER | FULL-STACK ENGINEER

Jan 2023 – Current

- Initiated a project to establish an **efficient networking and document sharing solution** while addressing challenges encountered during networking events, and developed an application utilizing **React Native, Node.js, and MongoDB**

SAVE YOUR APP(SYPP) – FRONTEND ENGINEER

Aug 2020 – Jan 2022

- Built a web app and a Chrome extension to **aid job seekers** that **track and optimize progress** by utilizing **React.js, Redux, Rest API, and WebSocket**

LEADERSHIP / ENGAGEMENT

REPUBLIC OF KOREA ARMY

Aug 2017 – Apr 2019

MILITARY INFORMATION AND STRATEGY ADMIN

Uljin, South Korea

- Streamlined military secret management, **reducing time spent by 30%** with **Excel programs** and **Word macros**