





# JAE HO CHOI

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## Software Engineer

### EDUCATION

#### EMORY UNIVERSITY

BACHELOR OF SCIENCE

COMPUTER SCIENCE

Atlanta, GA | Aug 2016 – Dec 2022

- Dean's List (Spring 2022)
- Dean's List (Fall 2021)

### CERTIFICATION

#### AMAZON WEB SERVICES(AWS)

- Solutions Architect - Associate

### RELEVANT COURSES

- Data Structure & Algorithms
- Analysis of Algorithms
- Artificial Intelligence
- Systems Programming
- Machine Learning
- Computational Linguistics
- Data Mining
- Database Systems
- Computer Security
- Computer Science Practicum
- Information Visualization

### PROGRAMMING SKILLS

- Java, Python
- HTML, CSS, JavaScript
- React, Redux, NodeJS
- PostgreSQL
- Scikit-learn, Pytorch, AWS
- Windows/Mac/Linux familiarity

### LEADERSHIP/ENGAGEMENT

#### KOREAN AMERICAN SCIENTISTS AND ENGINEERS ASSOCIATION

SENIOR ADVISOR

Atlanta, GA | Aug 2016 – Dec 2022

- Organized STEM-related events around the campus to advise students interested in STEM

### WORK EXPERIENCE

#### AMAZON WEB SERVICES(AWS)

SPECIALIST SOLUTIONS ARCHITECT INTERN

Seoul, Korea | May 2022 – Aug 2022

- 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 create an **automated lifecycle of data ingestion, data processing, and ML retraining** 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

AI ENGINEER(COMPUTER VISION) INTERN

Seoul, Korea | May 2021 – Aug 2021

- Initiated and engineered a **metaverse AI virtual banker** prototype using deep learning-based text-to-speech, face generation, and lip-sync models
- Improved a **skin cancer detection** model's accuracy from **70% to 89%** by **preprocessing** image 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** detection model

#### EMORY UNIVERSITY

TEACHING ASSISTANT

Atlanta, GA | Aug 2022 – Current

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

### PROJECT EXPERIENCE

#### SAVE YOUR APPS(SYPP)

FRONTEND ENGINEER

Remote | Aug 2020 – Jan 2022

- Built a web application and a Chrome extension to **aid job seekers that track and optimize progress** by utilizing **HTML, CSS, React.js, Redux, Rest API, and WebSocket**
- Implemented customized components including a monthly/weekly calendar, a recruitment process tracking feature, and a summarized dashboard

#### VAZAAR

FRONTEND ENGINEER

Atlanta, GA | Aug 2021 – Jan 2022

- Led and developed a web application that **mitigates difficulties within 2<sup>nd</sup> hand selling** among college students by utilizing **React.js and Rest API**
- Implemented components including the landing page, authentication pages, product categorization logic, and product description