Aaron Beomjun Bae

3400 Avenue of the Arts, Unit H322, Costa Mesa, CA 92626

(206) 659-2131 | beomjuna@uci.edu | linkedin.com/in/aaron-bae | github.com/aaronbae/

EDUCATION

University of California - Irvine, Master of Science in Computer Science

Sept. 2019 - Dec. 2020

Focus on Natural Language Processing Research as a Data Science Researcher

(Expected)

A paper on BERT based models on Dialogue dataset in the works for journal submission.

University of Washington, Bachelor of Science in Mathematics

Sept. 2015 - June, 2019

Member of the Sigma Nu Fraternity. Served as a Chapter Representative.

 Impacted a student organization's recruitment process by creating an automatic resume reviewer using a machine learning algorithm.

EXPERIENCE

Computer Science Researcher

March 2020 -

Present

University of California, Irvine

 Developed a BERT-based transformer languages model that achieved 76.0 F1 score in classifying questions from a dialogue-based dataset.

Lead a team of engineers, and presented weekly reports to graduate advisors and industry managers

Computer Science Researcher

Jan. - June, 2019

University of Washington

- Created a probabilistic model to statistically prove political gerrymandering in Washington.
- · Worked with a team of engineers to build a React based simulation and visualization tool.

Software Engineer Oct 2017. - March,

University of Washington

2018

- Worked as a software engineer for Husky Snow club, a University student organization.
- Built tools that were used to recruit and help the officers run club activities.

Software Engineering Intern

June - Sept.,

Crowd Cow

2017

- Created a dashboard to display company KPIs to the management team.
- Directly worked with a team of front-end and back-end engineering leads.

PROJECTS - AVAILABLE IN GITHUB

HighCurve (Currently in Progress)

2020

- Stock recommendation application built on Express backend and NextJS Frontend
- Automated CRON data pulling feature
- Automated notification through node-mailer
- · Custom designed data scheme for managing Stock data on Mongo
- Runs all API points on minimal resource environment
- Machine learning on company profile information to recommend investment on historical OHLC data

Image Recognition over IoT Network

2020

2020

- An identification system to recognize the presence of an automobile in an intersection.
- Used AWS GreenGrass and MS Azure IoT to deploy MXNet.
- Used Docker and AWS Lambda for deployment

- Dersonal website that above proving projects and my experience

- Personal website that shows previous projects and my experience
- Custom blog post creator with S3 Image insertion feature.
- Backend built on Express and frontend built on NextJS

SKILLS

Data Modeling Skills

aaronbae.com

- Python, Jupyter Notebook, PyTorch, Pandas, NLTK
- Basic familiarity with R and Tableau
- Comprehensive understanding of CNN, LSTM, Transformers, SVM, and other common models
- Ability to develop a big data pipeline

Full-Stack Skills

- Core Frameworks: NodeJs, React, Redux, and Express
- Basic Web: HTML, JavaScript, Bootstrap 4, REST
- AWS Products: EC2, RDS, S3, and Lambda
- Database Products: MongoDB, SQL, Apache Spark
- Other: Java, Docker, Linux, SSH, and Git