Andrew Chung

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EDUCATION

Northwestern University   **Evanston, IL**
Weinberg College of Arts and Sciences   Sep 2018 — Present
Bachelor of Arts in Computer Science   Cumulative GPA: 4.0 / 4.0
Relevant Coursework: Data Structures and Algorithms (DSSL2), Agile Software Development (React / React-Native), Human-Computer Interaction (HTML5 / CSS3 / Javascript), Intro to Artificial Intelligence (Python), Intro to Computer Systems (C / Unix environment)

EXPERIENCE

Urbanbase Inc.   **Seoul, Korea**
Machine Learning Engineer Intern   Jul 2019 — Aug 2019
- Developed and gave company-wide presentations for two ML classification and object detection model training tools in the browser, based on AWS Sagemaker and Tensorflow.js
- Expanded dataset for model training by web-scraping approximately 20000 home interior images using Selenium in Python
- Labeled approximately 1000 images to enhance object detection model used in Urbanbase Taker API, a spatial analysis tool that analyzes home interior photos
- Participated in weekly meetings with company's Machine Learning team to communicate and coordinate progress

AMARAL Lab   **Evanston, IL**
Student Researcher   Apr 2019 — Jun 2019
- Investigated patterns in retractions of academic papers using data from Retraction Watch and WoS
- Used the scikit-learn ML library in Python to find three common patterns authors follow when committing fraud

TECHNICAL PROJECTS

Freude | Main Collaborator   Jan 2020 — Present
Cross-Platform Mobile App (Android, iOS) for College Communities and Course Reviews
- Involved in collaboration with a team of five, taking part in both user research and software development
- Developed REST APIs with Flask (Python) in TDD fashion and front-end mobile application in React Native
- Implemented a direct messaging feature on the app by enabling Socket.io functionality in Flask backend

Find Your Fit | Main Collaborator   Feb 2020 — March 2020
Trial-Based E-Commerce Platform for Athletic Gear | Website | Github
- Worked with a team of five clients from Northwestern's Master of Product Design and Development Management program to create a mobile-friendly React application for trialing and purchasing athletic gear
- Contributed to development of product backlog and rapid iteration of features based on user testing and feedback in an Agile software development team of five
- Responsible for DB management in Cloud Firestore, handling API calls with React hooks, and deployment with Firebase-CLI

Booktogether | Back-end   Nov 2019 — Dec 2019
Online Publishing Platform for Book Reviews and Curations in Korean | Website | Github | Medium
- Facilitated communication with front-end by creating and writing documentation for 34 REST endpoints in Node.js / Express
- Reduced time taken to search for books on the website to 1/3 by refactoring MongoDB Regex Find queries to Elasticsearch Query DSL
- Built deployment architecture for the platform using 10 different Amazon Web Services components (S3, Elastic Beanstalk, EC2, Cloudfront, Route 53, Certificate Manager, SES, SNS, CodePipeline, CodeBuild)

Vidplus | Project Leader, Front-end   Oct 2019 — Nov 2019
Web Application for Video Annotations | Website | Github | Medium
- Led a team of four developers by creating initial product backlog, prototyping UI for all pages, planning MySQL database schema, and facilitating Agile Scrum sprints / code reviews
- Created a React-based UI with state management in Redux, used for loading Youtube / Facebook videos via URL and typing annotations associated with certain video timestamps
- Improved accessibility of video annotations by adding "export to Google Docs" function via the Google Docs API

TECHNICAL SKILLS

Proficient in: Javascript, Node.js, Express, Flask, HTML, React, React-Native, Redux
Familiar with: Python, Typescript, CSS, MySQL, MongoDB, Git, AWS, Firebase