

Andy Chung

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in chung01

Education

Overall GPA 3.93/4.0

University of Michigan <i>Computer Science (PhD)</i>	Aug 2023 – 2028 <i>Ann Arbor, MI</i>
Georgia Tech <i>Computer Science (BS)</i>	Jun 2015 – Dec 2018 <i>Atlanta, GA</i>
Georgia Tech <i>Psychology (BS)</i>	Aug 2006 – Dec 2011 <i>Atlanta, GA</i>

Research Experience

University of Michigan Research Assistant <i>Situated Language and Embodied Dialogue Lab</i> <ul style="list-style-type: none">Large Language Model based Autonomous Agents	Aug 2023 - Present <i>Ann Arbor, MI</i>
Tokyo Institute of Technology Summer Research Assistant <i>MIUBIQ Lab</i> <ul style="list-style-type: none">Developed an indoor localization app using RSSI and K-nearest neighbors algorithm.Demoed the working app to the research team and at final presentations.	Summer 2018 <i>Tokyo, Japan</i>

Professional Experience

AlgoVerse Director AI <ul style="list-style-type: none">Provided high level direction and consultation on the development of LLM based agents.Provided feedback on various papers submitted to the Neurips high school track	Jun 24 – Present
Nike Valient Labs Data Scientist <i>Project Move</i> <ul style="list-style-type: none">Lead research initiatives from the data science perspective for new AI coaching engine.Built models to predict RPE using proprietary underfoot sensor data with RMSE of 0.5 (out of 10 scale)Performed EDA on terabyte scale customer behavior data to surface most profitable user segments.	Apr 23 – Present
Fellowship.ai Data Scientist <i>Fashion Image Modification Team</i> <ul style="list-style-type: none">Developed fine-tuning pipeline for image editing with Stable Diffusion.Worked with SOTA models to develop new features such as Virtual Try On.Led a data science team and coordinated tasks.	Jan 23 – Apr 23
Amazon Software Development Engineer <i>Automated Marketing</i> <ul style="list-style-type: none">Worked closely with data scientists to design and implement end-to-end a content validation model that processes over 50 million unique datapoints per month.Developed a backtesting method to validate model results.	Jan 19 – Jan 22 <i>Seattle</i>

- Implemented using AWS Kinesis and Firehose to automatically label streaming data as they come in.

Virtual Try On

New York, NY

- Designed and implemented end to end a deployment pipeline using Sagemaker that deploys a machine learning model into production. Demoed to SVP of Amazon. (2 levels below Jeff Bezos)
- Generated datasets for applied scientists reducing model error by 20%
- Designed and implemented a custom deployment pipeline automating 100s of hours of dev work
- Designed a selection algorithm using nearest neighbors exceeding customer satisfaction goals (expected 70%, got 83%)

Amazon Go

Seattle, WA

- Implemented a new camera selection strategy reducing error rates by over 50% and covering more edge cases.
- Refactored and modularized deprecated designs allowing easy implementation of new workflows.
- Implemented a new tier 1 API that will be serving over 3 million requests per day.

Alexa SmartHome

Seattle, WA

- Built, tested, and pushed into production two new customer facing projects for Alexa.
- A/B testing complete and available to 800,000 Alexa customers.
- Found and fixed bugs/edge cases outside immediate scope.
- Developed new code flow and refactored deprecated designs and wrote detailed design documents describing updated changes.
- Created automated testing suite to be used by all of Alexa SmartHome.

Blackrock Summer Analyst: Software Engineering

Summer 2017

Trading Analytics Team

San Francisco, CA

- Built a machine learning toolkit that uses various classifiers to predict investment returns.
- Developed a machine learning model that was able to predict excess returns with a 64% accuracy
- Scraped Fed statements and performed sentiment analysis to test their correlation with S&P closing prices.

Verizon Software Engineer Intern

Summer 2016

FiOS team

Temple Terrace, FL

- Built a cross-platform native mobile app that provides realtime updates to contractors.
- Used by 500+ enterprise users and estimated to save at least \$3.9M annually in costs.
- Built in C# on the Xamarin platform in an Agile environment with a global collaborative team.

Specialized Skills

Programming Languages: Python

Science: Pytorch, Huggingface, Pandas

Cloud: Databricks, Pyspark, Various AWS services incl. EC2, Sagemaker, ECR, Kinesis, Lambda, Cloudwatch, S3, EMR

Other Interests

What's in a Doctors Bag Founder/President.

Co-author of a published paper on peripheral nerve regeneration.

Helped develop curriculum for a high school hackathon