

Ashwin K. Aggarwal

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EDUCATION

University of California, Berkeley, M.S. EECS, B.A. Computer Science Class of 2023, GPA: 3.7

Coursework: Data Structures, Linear Algebra, Efficient Algorithms, Machine Learning, Artificial Intelligence

WORK EXPERIENCE

Salesforce, Software Engineering Intern May 2022 - Aug 2022

- Built data-pipelines to incorporate new signals into prior summer's database health anomaly detectors
- Developed multiple multi-variate regression based anomaly detectors that sped up detection times by 30%
- Led the design and implementation of automated feedback software to improve detection accuracy

Salesforce, Software Engineering Intern May 2021 - Aug 2021

- Developed regression based anomaly detection algorithms to monitor Marketing Cloud release performance
- Created a Python package to read in Splunk data, gauge release health, & generate reports for stakeholders
- Modified an auto-regressive forecasting algorithm to account for weekly seasonalities and MC release dates

CodeHS, Software Engineering Intern Jun 2020 - Nov 2020

- Built an Ajax UI image upload component, optimizing the integration of upload functionality across the site
- Recreated dashboards to view students' performance on quizzes using a newer quiz object model
- Drove production of allowing students to retake quizzes, giving teachers more flexibility with assignments

The University of Chicago, CS Department, Data Engineering Intern May 2019 - Aug 2019

- Analyzed AWS EC2 price history using time series visualization, regression, and residual plots
- Made a model for availability, the probability of buying a spot instance for less than declared price
- Determined from a non-random residual plot scatter that AWS generates EC2 instance prices randomly

PROJECTS

Fantasy Valorant Feb 2022 - Present

- Launched a website that allows esports enthusiasts to create a fantasy Valorant league
- Web scrapes match statistics from pro-Valorant matches and computes points based on a custom ruleset
- Computes match predictions based on historical data & displays data visualizations for player performance
- Allows users to modify their rosters each week and automatically updates fantasy matches & leaderboards

Mobile Developers of Berkeley, Software Engineer Jan 2019 - May 2022

- Led a team to develop 4 iOS applications over 4 semesters and co-ran the internal app development program
- Built 6 deployment-ready Android applications as part of the 6 week intense training program
- Mentored younger club members academically and professionally

Bridge

- Received an honorable mention (4th overall) at Facebook's Global Hackathon 2018
- A non-invasive depression identification system to reduce the incidence of self-harm activities
- Performs sentiment analysis on a user's Facebook posts using IBM's sentiment analysis kit
- Analyzes smartwatch data like heart rate variability from HealthKit to detect abnormal sadness levels

LANGUAGES & SKILLS

Python, Java, Swift, SQL, C, JavaScript, Splunk; django, ajax, pandas, sk-learn, numpy, plotly, requests, nltk, bs4