Ashwin K. Aggarwal

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EDUCATION

University of California, Berkeley, Computer Science, 2018 - 2022 (anticipated)

University of Chicago, Masters Program in Computer Science (MPCS), 2016 - 2017
  MPCS courses taken while in high school: **C Programming**, **iOS App Development**, **Databases**

University of Chicago Laboratory Schools [GPA: 3.8], 2014 - 2018

WORK EXPERIENCE

Computation Institute, University of Chicago Chicago, IL
Data Analyst Research Intern May 2018 - Aug 2018
  • Analyzed AWS Spot Instance Price data to help users make more informed cloud space purchases
  • Made a mathematical formula to calculate the probability of successfully launching a spot instance
  • Created regression models for predicting the likelihood of buying cloud space over a time series

Scheme Stanford, CA
Co-Developer Jul 2018 - Sep 2018
  • A startup to help disadvantaged students find summer opportunities
  • Implemented a recommendation system to connect students to employers
  • Used Jupyter notebooks, pandas, and matplotlib to test this algorithm on simulated data

Computation Institute, University of Chicago Chicago, IL
Machine Learning Research Intern Jun 2017 - Sep 2017
  • Researched ensembling methods for machine learning classification algorithms
  • Analyzed large material science datasets (~230k entries) in Python with scikit-learn, numpy & pandas
  • Created collaborative filtering algorithms for scientific dataset recommendations

Waaves, University of Chicago Booth School of Business Chicago, IL
Front-end Developer Jan 2016 - Jun 2016
  • Led the startup development team to produce a Ruby on Rails based website with Amazon S3
  • Worked with UChicago Booth students to prepare and present weekly finance presentations
  • Awarded Semi-Finalists in Booth's New Venture Challenge among the 120 startups

PROJECTS

Bridge (Python, Swift)
  • Received an honorable mention at Facebook's Global Hackathon
  • An application that detects sadness using biometric data, like heart rate variability, from smartwatches
  • Performs sentiment analysis on a user's Facebook posts to detect if someone is abnormally sad
  • Notifies close friends or family members if someone is feeling sad, prompting them to reach out
CoinTK (Python, Swift)
  • Awarded Facebook's Favorite Hack at HackIllinois 2017 (UIUC)
  • An open source program for users to backtest their bitcoin prediction algorithms.
  • An iOS application and a web server are used to visualize the backtesting results

SKILLS & AWARDS

• Received an honorable mention (4th overall) for **Bridge** at Facebook's Global Hackathon (Nov 15-18, 2017)
• Python, C, Java, Swift, SQL, JavaScript, PHP, Ruby on Rails, C++; pandas, sk-learn, numpy, boto, plotly
• Relational algebra, entity-relationship database modeling, MVC architecture, statistical modeling