

AKRITI KESWANI

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EDUCATION

Drexel University, Philadelphia, PA

Dual Bachelor of Science in Computer Science & Psychology (Pre-Medical - Honors)

Anticipated June 2022

GPA: 3.2

Lone Star College, Kingwood, TX

Associate of Science

Graduated May 2017

GPA: 3.9

Selected Coursework :

Data Structures and Algorithms, Systems Programming (C/C++), Functional Programming (Haskell), Operating Systems (C), Artificial Intelligence, Software Design Patterns (Java), Web and Mobile Development (JavaScript), Theory of Computation, Computational Photography, Systems Architecture

The Coding School

Python/C++ Tutor

April 2022 - Present

Los Angeles, CA

WORK EXPERIENCE

J.P. Morgan Chase & Co

Software Engineering Intern - Intelligent Automation Team

September 2020 - March 2021

Newark, DE

- Designed a parser to extract relevant internal data for the automation team from Outlook emails **using Python, Java, and Alteryx**, which is now used by over 6 teams internally.
- Developed an **automated workflow** using **C++** and **SQL** which simplified the process of identifying un-mapped balances on balance sheets, and **reduced workflow time by 23% (based on user studies)**.
- Restructured and redesigned **attribution scripts** and **RPCs** in **Python** which led to **improved code quality** and **increased productivity** for the Interest Risk Reporting team.

Merck Sharp & Dohme

Software Analyst - Global Oncology Policy Team

October 2019 - March 2020

Kenilworth, NJ & San Francisco, CA

- Optimized the internal search engine using Microsoft Sharepoint Developer Tools and **Javascript, CSS** and **HTML** resulting in **28% improvement in page load time**.
- Redesigned the lower middle-income country immunotherapy metrics data workflow using **Python** and **Jupyter Notebooks** which resulted in **over 8% quicker** access to the relevant data.
- Developed the data pipelines along with the web interface** for depicting relevant updates in recently published research journals.

SELECTED PROJECTS

- Text Editor** – Built purely in C with multi-threading, using a doubly linked list representation with lines which allows advanced editing features such as vertical bar command, moving, deleting, and prefixing lines.
- MultiPlayer Chess Online** – A live, online chess game developed in React.js & Socket.io, which allows two players to play chess in real time, including validation checks on moves. Built a decision tree model to allow the users to play against the PC.
- Bandfran** – Django web application integrating Spotify API to connect users based on their music interests. Developed matching algorithm using heuristics based on user's playlists and genres.
- Mock Stock Exchange** – Web application using Node.js, React.js, Google Firebase, and IEXCloud API with user authentication, allowing one to buy shares of stocks with "trial" money and challenge other users in terms of profit.
- Rewire** – Chrome extension + Django web application tracking focus study sessions and time spent on other tabs that may relate to social media aiming to resolve productivity time sinks for users.
- TOT Spot** – Mobile application built using React Native and AWS Rekognition allowing users to scan and identify celebrity images using facial recognition capabilities based on machine-learning algorithms.

AWARDS & RECOGNITION

- Fellow** Rewriting the Code September 2021 - Present
- Technical Content Creator** Drexel Algorithms and Data Structures January 2021 - Present
- Volunteer** BeTheMatch National Marrow Donor Program August 2013 - Present
- Co-organizer** UNWomen Annual Gender Equality Rally March 2016 - March 2018