

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: 3.44

Lone Star College, Kingwood, TX

Associate of Science

Graduated May 2017

GPA: 3.94

Selected coursework (* - Residential Tutor) :

Data Structures and Algorithms*, Systems Architecture, Systems Programming (C/C++), Functional Programming (Haskell), Operating Systems (C), Software Design Patterns (Java)*, Web and Mobile Development (JavaScript)*, Graphical User Interfaces*, Theory of Computation, Database Systems

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.

Housing and Residential Life, Drexel University

Resident Assistant (RA)

January 2021 - Present

Philadelphia, PA

Research: Keswani et al. Isolation, purification, and genome annotation (bioinformatics techniques)

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** – Web application using **Django** and **Spotify API** which connects users using their music taste. Developed a matching algorithm which uses heuristics based on user's playlists and genres to match them with their ideal music partners.
- **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.

AWARDS & RECOGNITION

- **Fellow** Rewriting the Code *September 2021 - Present*
- **Technical Content Creator** Drexel Algorithms and Data Structures *January 2021 - Present*
- **Mentor** Drexel Women in Computing Society *August 2019 - Present*
- **Volunteer** BeTheMatch National Marrow Donor Program *August 2013 - Present*
- **Co-organizer** UNWomen Annual Gender Equality Rally *March 2016 - March 2018*