

# 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: 3.36

**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

## 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*
- **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*