

# AKRITI KESWANI

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## EDUCATION

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**Drexel University, Philadelphia, PA**

*Graduated June 2022*

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

**Lone Star College, Kingwood, TX**

*Graduated May 2017*

*Associate of Science*

### 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

## WORK EXPERIENCE

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**J.P. Morgan Chase & Co**

*September 2020 - March 2021*

*Software Engineering Intern - Intelligent Automation Team*

Newark, DE

- Designed a parser to extract relevant 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 unmapped balances on balance sheets, and reduced workflow time by 23%.
- Restructured and redesigned attribution scripts and RPCs in Python leading to improved code quality and increased productivity for the Interest Risk Reporting team.

**Merck Sharp & Dohme**

*October 2019 - March 2020*

*Software Analyst - Global Oncology Policy Team*

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 resulting 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

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- **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.

## SKILLS

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- React Native, React.js, Django, Node.js, Express, Google
- C, C++, Python, Java, Racket/Scheme (Functional)

## AWARDS & RECOGNITION

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- **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*