Akriti Keswani

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Education

Drexel University, *Philadelphia, PA*   *Anticipated June 2022*
Dual Bachelor of Science in Computer Science & Psychology (Pre-Medical - Honors)   GPA: 3.44

Lone Star College, *Kingwood, TX*   *Graduated May 2017*
Associate of Science   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)*, Theory of Computation

Work Experience

J.P. Morgan Chase & Co   *September 2020 - March 2021*
Software Engineering Intern - Intelligent Automation Team   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   *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** 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   *January 2021 - Present*
Resident Assistant (RA)   Philadelphia, PA

Howard Hughes Medical Institute & University of Pittsburgh   *September 2017 - March 2018*
SEA-PHAGES Lab Program at Drexel University   Philadelphia, PA

Research: Keswani et al. Isolation, purification, and genome annotation (bioinformatics techniques) of 89 unique bacteriophages

Selected Projects

- **Text Editor** – *Personal project built using C* - Built a text editor purely in C (with multi-threading), using a doubly linked list representation of lines which allowed advanced editing features such as vertical bar command, moving, deleting, and prefixing lines.
- **Multiplayer Chess Online** – *Group Project using React.js & Socket.io* - A live, online chess game built on React.js, 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** – *Personal Project using Django* - Built a web app 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.
- **MockStockExchange** – *Group Project Using React.js* t- A web application built on Node.js, React.js, Google Firebase, and IEXCloud API with user authentication, that allows users to participate in a mock stock exchange where they can buy shares of stocks with "trial" money and challenge other users in terms of return and capital.

Awards & Recognition

- **Technical Content Creator** Drexel Algorithms and Data Structures   *January 2021 - Present*
- **Member** 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*