

Dhiraj Kuttichirayil

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EDUCATION

University of Illinois at Urbana-Champaign

2021 – 2024

Bachelors in Statistics & Computer Science

- GPA: 4.00/4.00
- Relevant Coursework: Computer Programming, Data Structures, Statistical Modeling, Data Science, Numerical Methods, Software Design, Statistics & Probability

EXPERIENCE

STAT107: Data Science Discovery

Jan 2022 – Present

Course Staff, Developer

Urbana, IL

- Worked along professors and graduate students to help over 500 students learn introductory statistics and computer programming (Python) to perform practical data analysis on datasets
- Developed JavaScript programs to automatically parse markdown text into proper HTML that dynamically adds tags for the PrairieLearn assessment platform
- Created guides and lessons on Pandas dataframe manipulation using Python and statistical concepts
- Developed interactive Python labs (Jupyter Notebook) that gave students opportunities to demonstrate their Python and statistics skills on real world datasets

CS199: Honors Project

Jan 2022 – Present

Project Manager

Urbana, IL

- Managed groups of 3-5 students enrolled in the honors project course on a project of their choosing
- Provided lessons and walkthroughs on needed skills, toolchains, and libraries for their project

CS128 Honors: Rust Programming

Jan 2022 – Present

Course Assistant

Urbana, IL

- Assisted students in learning the fundamentals of the Rust programming language
- Created and debugged coding assignments and students solutions to ensure an effective learning experience

PROJECTS

Fitness Logger | [Python](#), [Django](#), [HTML](#), [CSS](#)

- Allows users to entire and track their fitness progress over time with a dashboard interface
- Database (sqlite) backed web app made using Django
- Allows user to input and track their fitness data through an intuitive and insightful UI (Bulma CSS)
- User authentication through secure Django authentication

Discord Scheduler Bot | [Python](#)

- Developed a Discord bot that allows users to schedule an event by conducting a survey of server members and returning the most optimal time slots
- Implemented Schedule and Calendar classes to track available for users and provide interfaces to entering and modifying data

Chat with Rust | [Rust](#), [HTML](#), [CSS](#)

- Developed a web application using the Rocket web framework for Rust in a small group for honors project
- Database (sqlite) backed web-app built with the Rocket framework for Rust
- Allows users to send and receive messages while storing data as a custom Message object

SKILLS AND INTERESTS

Languages: Python, C++, R, Rust, Javascript, Typescript, Java

Libraries and Tools: Pandas, NumPy, React, ExpressJS, Matplotlib, Jupyter Notebook, R Markdown

Interests: Software Engineering, Data Science, Web Development, Modeling