

Lukas Jenkins | Resume

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I have experience in Python, statistics, and data science from my engineering degrees, and I recently completed an intensive full stack web development bootcamp. I was enrolled in a biomedical engineering PhD program, but I fell in love with the computational aspect of my research and decided to instead pursue opportunities in data science, data engineering, and software engineering.

Education

Full Stack Web Development Bootcamp

Tech Talent & Strategy (Certificate ID: 02298444633363), 2023

- Learned core front- and back-end technologies including HTML, CSS, JavaScript, Python, Java, React, and Spring Boot

M.S. Biomedical Engineering

University of Rochester, 2020-2022

GPA: 4.0, received Graduate TA Award, and received no corrections on my thesis "Design, Fabrication, and Characterization of a Fluidic Device for Microbubble Array Cell Culture using Additive Manufacturing and Computational Fluid Dynamics"

B.S. Chemical Engineering

University of Rochester, 2015-2019

GPA: 3.71, cum laude with high distinction, recipient of Research & Innovation Grant, and founded Beta Theta Pi fraternity

Experience

AI Chatbot Web Application

Rochester, NY

Full Stack Web Development Bootcamp 2023

- Built a Django web app using Python, HTML, CSS, and JavaScript where users register an account for an AI chatbot
- Requests to the OpenAI API generate AI responses to user input, and chat history is sent to a cloud-hosted PostgreSQL database set up on Railway so that it is retained when users log back in. The front-end is stylized and easy-to-use for a modern audience
- Deployed project link: <https://ai-chatbot-site.vercel.app/register>

Personal Website and Other Projects

Rochester, NY

Full Stack Web Development Bootcamp 2023

- Created a professional website using Vite and React to showcase my personality, research background, and coding projects
- Other projects include an AI Story Generator web app, a Python program that uses the Google Maps API and the k-nearest neighbors algorithm to generate efficient apartment tours in NYC for real estate agents, and a SVM machine learning project using Kaggle data
- Deployed site link: <https://lukas-jenkins.vercel.app>

Undergraduate and Graduate Researcher

Rochester, NY

University of Rochester

2017-2023

- Performed physics simulations using Python and COMSOL Multiphysics to guide NIH-funded research aims for various labs, establishing myself as an in-house authority for Principal Investigators
- Extensive experience using Python for mathematical modeling, statistics, regression, data visualization, cleaning, and reporting

Skills and Knowledge

Skills: Python (Pandas, Requests, Sci-kit learn, NumPy, SciPy, Matplotlib, Seaborn), SQL, Web Scraping, REST APIs, HTML, CSS, JavaScript, React, Django, Java, Spring Boot, Git, Tableau/Power BI

Domain Expertise: Mathematical modeling, statistics, data analysis and visualization, biomedical and nanotechnology research, scientific writing