

Chahat Kalsi

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EDUCATION

Stony Brook University

Master of Science in Computer Science. GPA: 3.67 / 4.0

Stony Brook, NY

Aug 2023 – May 2025 (Expected)

Panjab University

Bachelor of Engineering in Computer Science and Engineering, GPA: 9.04 / 10.0

Chandigarh, India

Aug 2019 - Jun 2023

WORK EXPERIENCE

Goldman Sachs

Software Development Intern

Bengaluru, India

Feb 2023 - Jun 2023

- Automated firm-wide Cash Gap report generation, using Apache Spark in Java for processing data and performing calculations on it, and Apache Kafka for robust data streaming throughout the system.
- Developed a Java Spring Boot MVC backend to facilitate the Cash Gap report's approval process.
- Wrote thorough unit tests using Mockito and JUnit.
- Practiced agile development methodologies with Confluence and Jira for streamlined collaboration and project management.

Goldman Sachs

Summer Analyst Intern

Bengaluru, India

Jul 2022 - Sep 2022

- Designed pipelines for seamless integration of static CSV data into the system, developing a Java Spring Boot application to persist data in the database and crafting an Apache Kafka publisher for dynamic streaming of this data within the system, while working on Linux environments, followed by thorough unit and integration testing.
- Enforced adherence to Software Development Life Cycle (SDLC) standards throughout the project, accompanied by meticulous documentation.

Nottingham Trent University

Research Intern

Chandigarh, India

Jul 2021 - Mar 2022

- Coordinated and contributed to the research project "Novel Computational Tools to Assess ADHD in Young Adults", utilizing MATLAB to denoise EEG signals, employing techniques such as ICA, bandpass and notch filtering, and, wavelet transforms.
- Developed EEG signal visualisation tools in Python using Matplotlib, Seaborn, Pandas and OpenCV.

PROJECTS

Radiance: Social Media Web Application

Python, Django Framework, Postgres, AWS, Docker

- Engineered a full-stack productivity-focused social media site with task management, post creation, and engagement features using Python's Django Framework and a robust Postgres backend, deployed as a Docker container.
- Crafted an intuitive UI/UX using Figma, CSS and Bootstrap, ensuring a responsive and engaging frontend.
- Successfully deployed the Docker containerized application using Amazon Elastic Beanstalk, ensuring optimal performance and scalability for a seamless user experience.

PokéViz: Visualization Web Dashboard

D3.js, React.js, Node.js, AWS

- Developed a visual dashboard using React.js and D3.js to dynamically showcase Pokémon statistics, implemented interactive features, such as user-selectable fields for categorical bar plots, numeric histograms, and customizable scatterplots.
- Utilized D3.js for powerful data visualizations, React.js for seamless user interactions, and Node.js for backend functionality, enabling advanced analytics and data science-driven insights.
- Deployed the PokéViz Dashboard on Amazon S3, leveraging its static web hosting capabilities.

AWARDS

- Winner of HackHer413 2021 by UMass, Amherst in the category "Make your own social media website"
- Winner of HackUIET 2021 by Panjab University in the categories "Overall Third" and "Best Solo"

SKILLS

Languages: Java, Python, Javascript, C/C++, MATLAB, C#, SQL, Shell Script, HTML/CSS

Technologies: Spring, Spring Boot, Django, PyTorch, Matplotlib, React.js, D3.js, OpenCV, OpenGL, Junit, Mockito, Docker, Git, GitLab, GitHub, Apache Kafka, Apache Spark, Heroku, Windows, Linux, Full-Stack, Web Technologies, Web3