



JASDEEP AHLUWALIA

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Education

Univ. of Maryland-College Park, Computer Science & Statistics

Expected Graduation: Dec 2024

Relevant Coursework: Computer Vision, Intro Computing (Python), Object Oriented Programming/Data Structures (Java), Functional Programming/Data Structures (OCaml), Advanced Linear Algebra, Computer System Organization (C/C++), Practical Tools for Data Science (SQL, Tableau, Python, PySpark), Machine Learning, Algorithms, Optimization, Data-Driven Web Applications.

BigTh!nkAI Artificial Intelligence Club jasdeepahluwalia.com/files/notebooks/co2_emission

- Engineered a machine learning based Convolutional Neural Network to detect/distinguish between malicious malaria strains/cells in images using Python, Tensorflow, Keras, Seaborn, Neural Networks, and Google Colab.
- Trained neural network against a dataset of 100,000 archived images from compiled research to improve model accuracy.

Johns Hopkins University, Baltimore

Sept 2020 - Jan 2021

- Modeled systems using engineering principles to solve biological, physiological, and/or medical design problems over a six-week program.

WORK EXPERIENCE jasdeepahluwalia.com/work

Michelin ddi.michelin.com

May 2023 - Present

- Played a pivotal development role in Michelin's transition to a data-driven operations approach. **Software Engineering Intern - AI/ML**
- Utilized Python, SQL, Java, PySpark, and Spring Boot to construct & display analysis of tire sales; used daily by Michelin tire retailers.
- Helped enable real-time data analytics for the Business Analytics Dept. by developing data pipelines on AWS & Azure cloud databases.
- Prototyped an NLP Machine Learning model (GPT-3) so employees can search data lakes via English instead of needing to know SQL, changing the way 1000's of employees across multiple departments retrieve Michelin data.
- Developed end-to-end tests for a Python-based tire sales analysis tool, resulting in a 15% reduction in bugs and increased user satisfaction.

Sellerchain Inc. beta.sellerchain.com, smp-design-branch-dev.azurewebsites.net

Jun 2022 - Present

- Led the development on an Angular .NET Amazon Seller app using Javascript, HTML, and CSS. **Software Engineering Intern**
- Utilized AWS REST APIs to integrate cloud functionalities into a real-time shipment tracking dashboard, saving clients \$10000+ monthly.
- Developed a dashboard using MongoDB and SQL to handle client big data sets like accounts, saving 20 hours of manual labor per week.
- Worked with cross-functional teams showing problem-solving, collaboration, and communication skills in an agile development setting.

CEO Recommendation: jasdeepahluwalia.com/files/sellerchain_recommendation

Proxyfarm proxy-farm.com

Jan 2021 - Aug 2021

User Success: twitter.com/proxyfarm

Lead Developer

- Implemented self-taught network development to construct a premium proxy service, resulting in over 100 monthly active users.
- Managed high-volume, low-cost orders using a MongoDB database, organizing user accounts & optimizing order processing time by 50%.
- Developed a user dashboard, employee dashboard, and online storefront with React, Redux, and Stripe.
- Configured Squid proxy servers to enable IP masking, IP forwarding, traffic filtering, and user authentication with a pool of 10,000+ IPs.
- Maintained high security using detailed records & server logs, identifying potential risks early on while helping resolve issues proactively.

PROJECTS jasdeepahluwalia.com/projects

PlatePlanner - Meal Plan Generator plateplanner.org

May 2023

- Developed a meal plan generator that personalizes meal plans based on user food preferences and schedule.
- Integrated multiple APIs to access recipe and nutrition databases, implementing caching to optimize load times and reduce API calls.
- Engineered a RESTful backend server & relational database using Django and MySQL, enabling users to log in and store favored meals.
- Utilized a modern tech stack including JavaScript, React, Python, SQL, HTML, CSS, Git, and Redux to create a user-friendly experience.

Hash Automation - AI NFT Bot Demo: youtube.com/watch?v=v_RfGE2vPys

Jan 2022 - May 2022

- Developed and launched an Ethereum NFT bot that employs deep learning models (RNNs) to predict if you should cancel your transaction.
- Utilized Apache Spark to process real-time transactions in parallel, significantly improving the overall speed of monitoring.
- Integrated AWS S3 and an on-chain authentication system, resulting in no security breaches during the alpha period with over 50 users.
- Leveraged React, Electron, and TailwindCSS to develop a desktop app that is Mac, Windows, and Linux compatible.

Technical Skills

Core Skills: Python, SQL, Java, JavaScript, Git, Unix / Linux, C, C++, Rust, OCaml, Ruby
Backend: MySQL, Docker, Kubernetes, MongoDB, .NET, Express, Flask
Frontend: React, Angular, HTML, CSS, Tailwind CSS, Material Design/UI, SCSS, Figma
Certifications: AWS Certified Cloud Practitioner