Shubham Yadav

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EDUCATION

Northeastern University   *September 2022 – May 2026*
B.Sc. in Computer Science with Concentration in Artificial Intelligence   *Boston, MA*
- Relevant Coursework: Fundamentals of Computer Science 1 & 2, Discrete Structures, Mathematical Reasoning, Mathematics of Data Models, Foundations of Cybersecurity, and Object-Oriented Design.

EXPERIENCE

AI and Machine Learning Intern at Karma Solar | *Remote*   *June 2023 – September 2023*
- Analyzed API and customer data using Pandas to pinpoint rural adoption bottlenecks, identifying actionable insights that are projected to drive an 8% increase in customer acquisition in underserved areas.
- Engineered and optimized databases and data pipelines for collecting, sorting, and analyzing solar panel performance data, streamlining the data analysis process.
- Actively participated in weekly meetings and code reviews, incorporating feedback to improve project effectiveness and adapt to shifting requirements.

Founder and Tutor of Helping Hands | *Latham, NY*   *April 2020 - June 2021*
- Established a tutoring program supporting 300+ students learning during the pandemic in local school district.
- Coordinated 20+ high school tutors, amassing over 200 total program teaching hours.
- Recognized with the "Kids Care Award" from the district superintendent.

PROJECTS

Expex | *Firebase, Express.js, React, Node.js, Plaid API, Redux Toolkit |* [GitHub](#)
- Created a robust full-stack personal finance application facilitating users in merging financial accounts from over 12,000 different institutions into one secure dashboard.
- Implemented and deployed a custom API on AWS Lambda for efficient data processing, paired with a machine learning model that achieves 96% accuracy in receipt data extraction.
- Co-developed with a partner, adopting Scrum methodologies for swift iterations and feedback, while juggling varied roles to optimize productivity.
- Awarded $6000 by Americas Small Business Development Center for R&D to bring Expex to market.

Crop Yield Prediction Using Satellite Imagery | *Python, Google Earth Engine, SciKit Learn |* [Research Paper](#)
- Designed a device to predict crop yield using 1000s of data points from satellite imagery, soil, and climate data.
- Harnessed neural networks to create a prediction model with 92% accuracy.
- Showcased research at the International Spellman HV Competition and placed top 10 out of 600 competitors - awarded $1000 & $200 Research Stipend.

Amazon Clone | *MERN Stack, Stripe API, AWS Deployment |* [Website](#)
- Constructed a full-stack e-commerce platform, replicating 10+ core Amazon features, such as product search, user authentication, and order tracking, showcasing end-to-end development expertise.
- Implemented product listing, shopping cart functionality, and secure payment processing using Stripe and securely processed over 100 simulated secure payments.

SKILLS & INTERESTS

- **Skills**
    - **Web Development:** React, Redux, JavaScript, HTML, CSS
    - **Programming Languages:** Java (Advanced), Python (Intermediate), C++
    - **App Deployment:** Firebase, GitHub, AWS (EC2, S3, Lambda), Android Studio
- **Interests:** Music, teaching, hackathons, yoga, soccer, tech volunteering, working out