

SHUBH PATNI

shubhpatni2002@gmail.com | <https://www.shubhpatni.com/> | Boston, MA

EDUCATION

Northeastern University

Sep 2021 - May 2025

Bachelor's Computer Science and Economics

Relevant Courses: Data Structure & Algorithms, Object Oriented Design, Database Design, Networks & Distributed Systems

Certifications: Stanford: Algorithm Specialization, Coursera: Nand 2 Tetris

PROFESSIONAL EXPERIENCE

Giaaka

Freelance Remote

Full Stack Developer

Sep 2023 - Oct 2023

- Spearheaded the creation of Norswap and led a team of 3 engineers to build a staking service in Next JS, MongoDB
- Proficiently designed and implemented the Frontend, Backend, API endpoints, and seamlessly integrated Smart Contracts within Norswap. Hosted the service on AWS using Nginx

Phemex

Part-Time Remote

Researcher

Jan 2022 - Jun 2022

- Crafted a comprehensive research paper delving into the intricacies of Avalanche network's tokenomics, fundamental aspects, and ecosystem, providing invaluable insights for informed investment decisions by Phemex exchange stakeholders.
- Conducted an in-depth assessment of the Song a Day DAO, evaluating the worth of its music NFT collection.

Northeastern University

Part-Time Boston, MA

Teaching Assistant

Sep 2022 - Dec 2022

- Exceptional teaching assistant at Northeastern University, specializing in Discrete Structures in Computer Science.
- Created and delivered instructional materials to facilitate student learning and comprehension.

PROJECTS & OUTSIDE EXPERIENCE

ResMe

- Engineered a resume builder platform leveraging Next.js and TypeScript, integrating Zod, MongoDB, Next Auth, coupled with Server Actions and REST APIs for backend operations, and Zustand for state management.
- Implemented a dynamic, real-time custom preview feature, enabling users to review updates instantaneously and download their resumes in PDF format. Achieved 95% on Lighthouse, Website currently serves over 1000 users

NEU Gym

- Developed a website for university, empowering 25k students to discover the least crowded times for gym visits
- Leveraged D3.js to create interactive charts. Implemented cron jobs and computer vision OCR for automated data scraping, and PostgreSQL for robust data storage.

Pendulum

- Handpicked among just 16 teams by Lightspeed and Polychain Capital to pitch to a discerning audience of 50 VCs
- Orchestrated end-to-end development for Pendulum, encompassing smart contracts, frontend design, and contract integration using Next JS, Typescript, Wagmi, and Solidity

Portfolio Website

- Designed and deployed a personal website using Next.js, TypeScript, and hosted on Vercel, showcasing an extensive collection of over 100 articles and a myriad of personal projects.
- Crafted an intuitive user experience, ensuring seamless navigation and optimal engagement for visitors exploring my professional journey and insights.

Learn AI

- Developed "Learn AI", encompassing four core AI functionalities: face recognition, image detection, music generation, and image synthesis. Independently trained SSD, YOLOv3, and LSTM neural networks to power the respective AI capabilities
- Crafted an interactive web application using Django and Python, providing users a hands-on experience with AI

Ambulance

- In response to the COVID-19 pandemic, designed a web-based ambulance booking platform using Django. Incorporated real-time updates and notifications for both drivers and users upon booking confirmation through seamless integration with the Twilio API.

Image Processing Software

- Implemented MVC and Command Design patterns to optimize a Java based image processing software
- Developed interactive Java Swing user interfaces and optimized algorithms for mosaic, histogram, and color transformations, enhancing user experience.

SKILLS & INTERESTS

Skills: Java, Next.js, Node.js, AWS, Django, GraphQL, JavaScript, Git, HTML/CSS, MongoDB, MySQL, Postgres, React.js, Redux, REST APIs, SQL, Python, TypeScript, Web Development, Software Testing, Arduino, R