

# SHUBH PATNI

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

## EDUCATION

### Northeastern University

Aug 2021 - Apr 2025

Bachelor's Computer Science and Economics

**Relevant Courses:** Data Structure & Algorithms, OOPs, Database Design, Networks & Distributed Systems, AI

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

## PROFESSIONAL EXPERIENCE

### Hometap

Fulltime Remote

Full Stack Engineer (Co-Op)

Jul 2024 - Dec 2024

- Innovated textextract and OCR solution leveraging camunda, AWS, and implementing caching, slashing document processing time by 700%
- Engineered django scripts and migration files for seamless conversion of legacy user documents to new model
- Spearheaded development of new GraphQL and Django APIs, improving dashboard and form creation processes

### Resme

Founder

Feb 2024 - Present

- 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

### HFA Research

Part-Time Remote

Analyst

Feb 2024 - Jul 2024

- Authored detailed research reports on crypto project investments, airdrop farming opportunities, and node running guides for projects like Fuel, Nillion, and XAI
- Developed an indepth research report on Bittensor, exploring its subnets and positioning it as a key player in the decentralized AI industry

## PROJECTS & OUTSIDE EXPERIENCE

### 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

### Actions

- Secured victory in the prestigious Lion Hack for Cyber Connect track at Columbia University.
- Developed a semi-functional social media platform within a remarkable 24-hour timeframe.

### 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 AIs
- 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.

### 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.

### 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:** React, Next.js, Node.js, AWS, Django, GraphQL, JavaScript, Git, HTML/CSS, MongoDB, MySQL, Postgres, Redux, Zustand, REST APIs, SQL, Python, TypeScript, Web Development