SHUBH PATNI

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EDUCATION

Northeastern University	**Sep 2021 - May 2025**
Bachelor's Honors Computer Science and Economics	*GPA: 3.5*

Relevant Courses: Networks, Database Design, OOPs, Data Structures and Algorithms, Information Retrieval, AI

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

PROFESSIONAL EXPERIENCE

Hometap	**Fulltime Remote**
Full Stack Engineer (Co-Op)	*Jul 2024 - Dec 2024*

- Spearheaded development of textract and OCR solution to significantly reduce document processing time by 700%
- Successfully executed various Django migrations, updating over 25,000 customer records for Spruce
- Collaborated on projects utilizing TypeScript, Django, and React to optimize UI experience for underwriters

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 in decentralized AI

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.

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

PROJECTS & OUTSIDE EXPERIENCE

Verifund

- Secured victory at Harvard University's Hack Boston competition for crafting the top solution on the Telos blockchain.
- Engineered smart contracts for a distinctive crowdfunding platform utilizing Solidity, enhancing the landscape of fundraising

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.

Uniswap V1, V2, V3

- To master DeFi Basics, re-implemented core and peripheral contracts for Uniswap V1 and V2, showcasing a thorough grasp of CPMM, TWAP, and essential mathematical concepts.
- Implemented core contracts for Uniswap V3 such as re-implementing ticker math, liquidity management and swapping

Ethernaut

- Successfully secured Ethereum smart contracts by completing challenges up to level 19 in the Ethernaut Security Challenge using Solidity
- Applied best practices in blockchain security to identify vulnerabilities and hacked smart contracts to learn

SMTP Server and PNG Encoder	*Oct 2024 - Dec 2024*

- Successfully created a custom SMTP server using Rust, showcasing strong grasp of programming concepts and SMTP protocol
- Designed and implemented a program for encoding and decoding information within PNG files, demonstrating advanced technical skills in data manipulation

SKILLS & INTERESTS

Skills: Solidity, Rust, Foundry, Hardhat, Wagmi, Viem, Next.js, Node.js, AWS, GraphQL, JavaScript, Git, HTML/CSS, Java REST APIs, SQL, Python, TypeScript