Ankur Patil

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EDUCATION

- **Indian Institute of Technology (BHU) Varanasi** — Nov 2020 - Present
  Integrated Dual Degree (B.Tech + M.Tech) - Mathematics & Computing — CPI: 9.05

SKILLS

- **Languages**: *[Proficient]*: C++   *[Prior Experience]*: JavaScript, Python, Golang, Rust
- **Frameworks**: Django, Flask, ReactJs, NextJs, Cypress, Storybook, Pytest
- **Development Tools**: Git, GitHub, Postman, Linux, Heroku, Netlify, Vercel

EXPERIENCE

- **Kubernetes - Google Cloud Platform Project** — March 2023 - May 2023
  Linux Foundation Mentorship - CNCF, Software Engineer Intern
  - Developed **fast**, **lightweight** (around **5kb**) and **reusable** open-source **Lit**-based components
  - Tested components rigorously with **87%** test coverage including **Jasmine** and **Storybook** testing
  - **Optimized** the **Golang** based **REST API**, reducing page load time by **30%** and debug time by **50%**
  - **Exposure**: *Lit Framework, Golang, TypeScript, Jasmine, Storybook*

- **Silence Laboratories** — Oct 2022 - Dec 2022
  Security Software Engineer Intern
  - Comprehensively analyzed **cryptographic algorithms** implemented in **Rust**, ensuring proper code functionality
  - Implemented **Dilithium** in Rust, a **PCQ** scheme, resistant to **brute force attacks** from **quantum computers**
  - **Exposure**: *Rust, Cryptography*

- **Element** — Jul 2022 - Sept 2022
  Software Engineer Intern
  - Implemented **Knocking** using **ReactJs** and **Matrix SDKs**, allowing users to send a request to join a space or room
  - Developed **Cypress** tests and **Unit** tests, attaining **100%** test scope and fixed **UI bugs** with **12+** merged PRs
  - Created a **GitHub Action** for **9.8K+** starred repo, **automating PR labeling process** with **50+** requests per week
  - **Exposure**: *ReactJs, TypeScript, Cypress, GitHub Actions, SDKs*

- **Specter Desktop** — May 2022 - Aug 2022
  Summer of Bitcoin, Software Engineer Intern
  - Built a **scalable** and **secure JWT Authentication System** using **Flask RESTful** serving **260K+** users to date
  - Created **Pytests** and ran a local **Bitcoin-Core** node on **regtest** to **mine test coins**, achieving **100%** code coverage
  - Updated the **API documentation** of Specter Solutions, enhancing the overall user experience
  - **Exposure**: *Flask, Pytest, REST APIs, Access Tokens, Bitcoin Core*

PROJECTS

- **Futures on Chain** — *Python, React, TypeScript, Move, DeFi, Aptos Blockchain*   github.com/futures0xC
  - Developed a decentralized futures trading platform, **Futures on Chain**, on **Aptos** Blockchain.
  - Created market data API to fetch market details and **Transaction CLI** using **aptos-sdk** for seamless order placement
  - Integrated **Decentralized Exchange** for underlying commodity trading to get **decentralized market data**

- **SnapX** — *Node.js, GraphQL, Gatsby, Cryptography, Blockchain*   github.com/snapx
  - **First-of-its-kind**, **SnapX** is a **MetaMask Snap** powered with **notifications** and **account recovery** features
  - Built a **Gatsby** frontend integrated with **AES** and **biometric authentication** using **Node.js** for account recovery
  - Developed a notification system that sends periodic GraphQL requests via a cronjob to APIs, delivering notifications to the native browser and Metamask extension

- **Paper to Motion** — *Python, ChatGPT, OpenAI API, Stable Diffusion*   github.com/paper2motion
  - Developed a Python-based **command-line interface (CLI)** that seamlessly converts **PDFs** into **videos**
  - Extracted content from PDF using **PyPDF2** and ran a local **ChatGPT** node to generate summaries and prompts
  - **Generated images** from **prompts** using **Stable Diffusion** API and transformed content into video with Rephrase.ai

HONORS AND AWARDS

- **Led** a team of 6 to win a **Silver Medal** in **Aptos Labs** Challenge, InterIIT Tech Meet 12.0
- **Led** a team of 8 to win a **Silver Medal** in **Consensys'** Metamask Snap Development Hackathon, InterIIT Tech Meet 11.0
- Selected as one of the **Top 83** interns out of 20K applicants in **Summer of Bitcoin '22**
- Selected as one of the **Top 60** interns out of 10K applicants in **The Linux Foundation '23**
- Recorded around **1.3k opensource contributions** on GitHub & have **3.3k+** views on my personal blog
- Delivered a talk at **Metamask Community Call**, addressing an audience of **1.2k+** developers.
- Secured a **Global Rank 210**, **212** and **262** in **CodeChef Starters 83**, **90** and **89** respectively
- Serving as the **Google Developer Student Clubs (GDSC) Lead** of IIT BHU (2023 - Present)