Atharva Bibave

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EDUCATION

- **University of Houston** — Houston, TX
  Master of Science - Computer Science — May 2026
  Courses: Artificial Intelligence, Program Analysis and Testing, Cloud Computing

- **Savitribai Phule Pune University** — Pune, India
  Bachelor of Engineering - Computer Engineering — May 2024
  Courses: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems, Networking, Machine Learning, Deep Learning, Blockchain

SKILLS

- **Languages:** Python, Java, JavaScript, TypeScript, Solidity, HTML/CSS, Shell Script
- **Frameworks:** ReactJs, NextJs, NodeJS, Express, REST API, Recoil, Redux, Tailwind CSS, WebRTC, EtherJS
- **Tools:** Kubernetes, Docker, CI/CD, Git, Jenkins, Prisma, Terraform, Ansible, Kafka
- **Databases:** SQL, MySQL, PostgreSQL, NoSQL, MongoDB, Redis
- **Platforms:** Linux, AWS, GCP, Ethereum

EXPERIENCE

- **ETI Intern** — Houston, Tx
  University of Houston Energy Department — Sep 2024 - Present
  - **Developed department website** to enhance user experience, contributing to a 35% increase in web traffic.
  - **Collaborated with cross-functional teams** to strategize and implement content and website deployment plans, ensuring consistent and targeted messaging across digital platforms.
  - **Created outreach content** including blog posts, newsletters, and social media updates, to effectively communicate key initiatives and programs.

- **Software Developer Intern** — Lucknow, India
  CodeAlpha — Apr 2023 - June 2023
  - **Designed** reusable React components for customer facing sites, reducing development time by 20% and ensuring consistency across the team.
  - **Configured authentication and authorization** mechanism using OAuth 2.0 and JWT, enhancing security and user experience for internal application.
  - **Optimized database queries** and schema designs in MySQL, improving data retrieval speeds by 30%.

PROJECTS

- **E-Voting Dapp Using Blockchain** | Ethereum, Solidity, Polygon, MetaMask, EtherJs, React — [GitHub]
  - **Developed a decentralized application** using Ethereum blockchain.
  - **Optimized the performance** by integrating Polygon, reducing gas fees by 25% and increasing scalability by 70%.
  - **Implemented secure smart contracts** in Solidity, ensuring efficient and reliable on-chain transactions.
  - **Integrated MetaMask** for seamless user authentication and EtherJs for interacting with Ethereum blockchain.

- **ZapDash** | NextJs, PostgreSQL, Prisma, Typescript, Zod, Docker, Kafka — [GitHub]
  - **Developed a workflow automation platform** enabling custom workflows between apps, supporting triggers and actions with dynamic metadata to enable flexible, tailored automation solutions.
  - **Built scalable services** using PostgreSQL, Prisma ORM, and Kafka for real-time task processing and reliability.
  - **Implemented on-ramping technique** for seamless third-party app integration and user-friendly workflow setup, resulting in a 30% increase in user onboarding speed.
  - **Utilized Zod** for type-safe schema validation and efficient error handling, reducing error rates by 20%.

- **CoderHouse** | MongoDB, Express, React, NodeJS, WebRTC, Socket.IO, Docker, AWS — [GitHub]
  - **Developed a voice-based** social networking app to facilitate real-time audio interactions.
  - **Implemented WebRTC** for audio streaming, ensuring low-latency communication among users.
  - **Utilized Docker to containerize** the application and deployed it on AWS, ensuring scalability and reliability.
  - **Enhanced user engagement** by providing high-quality audio communication, leading to increased user participation.

VOLUNTEER EXPERIENCE

- **Vice-President, Entrepreneurship Cell (Ecell) — Skncoe** — Pune, India
  Actively contributed to fostering an entrepreneurial culture on campus by organizing events. — Jan 2021 - May 2024

- **Campus Ambassador — Coding Ninja** — Pune, India
  Organized events and Coding workshops, successfully reaching over 1,000 developers. — Aug 2021 - Dec 2023