

Shubham Chopade

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EDUCATION

- Syracuse University - College of Engineering & Computer Science** Syracuse, NY
Master of Science in Computer Science August 2021 - May 2023
Courses: Operating Systems, Computer Architecture, Design and Analysis Of Algorithms, Databases, Android Programming, Blockchain
- Savitribai Phule Pune University - Pimpri Chinchwad College of Engineering** Pune, India
Bachelor of Engineering in Electronics and Telecommunication May 2015 - July 2019
Courses: Data Structures and Algorithms, Object Oriented Programming, Embedded Programming, Networking

SKILLS SUMMARY

- Frontend:** React, Typescript, Javascript ES6, Next.js, Redux, Tailwind CSS, Storybook, Figma, Formik, Webpack
- Backend:** NodeJS, NestJS, ExpressJS, Python, Django, Flask, FastAPI, UI/UX, MERN, D3, JQuery
- DevOps and Cloud:** Kubernetes, Docker, Terraform, Git, AWS, Hetzner, Vercel, Firebase, Kafka, RabbitMQ, Celery
- Databases and OS:** MySQL, PostgreSQL, SQLite, MongoDB, Debian, Redhat

PROFESSIONAL EXPERIENCE

- Syracuse University, Biology Department** Syracuse, NY
Full Stack Engineer August 2022 - May 2023
 - Python Backend, REST API:** Deployed a high-performance REST API server using FastAPI for executing CPU-intensive operations. Implemented a messaging queue for efficient scheduling and handling of real-time EventSource requests, enabling the server to effectively manage and respond to up to 1000 concurrent connections.
 - AWS, Nginx:** Setup the architecture to be served by Amazon EC2 behind an Nginx proxy server, and the load balancer is used to manage HTTPS encrypted traffic.
- Viasat Inc.** Syracuse, NY
Software Engineer Intern May 2022 - August 2022
 - Global Satellite Networks Team:** Worked closely with Enterprise search team to assess the quality of Zoom calls experience as a service over satellite network.
 - Automation using Raspberry Pi:** Conducted recurring Zoom calls and employed Selenium and Python for automated testing, generating and processing metrics. Implemented Apache Kafka to store and transmit the metrics over to the Production Data Lake, specifically Amazon S3, for efficient storage and analysis.
 - Collaboration:** Built an efficient and scalable ingestion data pipeline to handle large volumes of incoming data from various sources.
- Grouoped Inc.** Syracuse, NY
Founding Frontend Engineer January 2022 - May 2022
 - Private Community App:** Developed a low-code social media application using React and Next.js, specifically designed for social media influencers to create and manage close-knit groups. Accompanied the application with comprehensive technical documentation.
 - Frontend and UI Design:** Led the planning and design of an enterprise UI design system utilizing Figma, resulting in the development of over 20 reusable frontend components.
 - Backend Infrastructure:** Created a robust backend infrastructure using NestJS (Node.js) to handle data storage on AWS S3. Collaborated with a team of three developers to successfully implement the backend architecture, ensuring scalability and efficient data management.
- Freelancer - Self Employed** Pune, India
Fullstack Developer June 2019 - July 2021
 - Project Delivery:** Successfully delivered projects for remote clients in three different countries, demonstrating strong project management skills and ability to collaborate effectively across borders.
 - Microservices Development:** Leveraged NodeJS to architect and develop scalable microservices, enabling the creation of distributed systems that can be independently deployed, managed, and scaled. Utilized this technology to enhance efficiency and facilitate seamless integration within complex software architectures.

PROJECTS

- Mutualisim - Agent-based modeling for Yeast (Micro-biology, Mutualism):** Designed and developed a distributed systems-based simulator to study the behavior of Yeast in diverse environmental conditions, such as varying levels of Glucose and Lysine. This educational product is specifically aimed at teaching microbiology concepts to school-going children, providing an interactive and engaging learning experience. (May 2023)
- Decoder Space (Digital Electronics, Verilog):** The Digital Electronics Coder Space is a dedicated platform designed to help individuals practice and enhance their Verilog coding skills specifically for interviews. With a focus on digital electronics, users can access a range of resources and exercises to master Verilog coding techniques, preparing them for success in technical interviews. (February 23)
- The Book Pundits (CRM, Book Campaign platform):** This platform offers customized book tours and campaigns for your book. It allowed the authors to host book tours and the readers or influencers to review it on their own social media platforms to push it to a larger audience. (January 21)