

SHOHAIB MALLICK

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PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience building scalable, secure web applications using Python, JavaScript, and cloud-native technologies. Proven leader in cross-functional teams, delivering measurable improvements in performance and user engagement. Seeking to drive innovation in fast-paced tech environments.

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL

Frameworks & Tools: Django, Flask, Node.js, Express.js, React.js, JUnit, Tailwind CSS

System Design & Architecture: Microservices, Scalable API Design, Authentication (OAuth2, JWT)

Databases: MySQL, MongoDB, Redis, Firestore

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Git, GitHub, GitLab CI/CD

Concepts: Algorithms & Data Structures, System Design, Concurrency, Message Queues, Kafka, Data Analytics, RESTful APIs, GraphQL

EDUCATION

Boston University

Master of Science, Computer Science (GPA 3.84)

Boston, Massachusetts, USA

Graduation Date: May 2024

Savitribai Phule Pune University

Bachelor of Engineering, Computer Engineering (GPA 3.67)

Maharashtra, India

WORK EXPERIENCE

FIND ME LLC (Early-Stage Startup, B2B2C)

Dec 2024 - now

Full Stack Developer

- **Core contributor to MVP development**, collaborating closely with **founders** and **stakeholders** to define product requirements and deliver the first production-ready version under tight deadlines.
- Led a **cross-functional team of 12 engineers** to build scalable microservices aligned with platform reliability and maintainability goals.
- Designed and deployed **RESTful APIs** and **GraphQL** endpoints, enabling **seamless real-time data integration** and supporting future **scalability**.
- Built **typo-tolerant fuzzy search**, increasing user discoverability and **reducing bounce rate by 30%**, directly shaping the product's user experience.
- Optimized backend architecture, **reducing API latency by 40%** and ensuring the **MVP** could support early **user growth** without performance bottlenecks.
- Integrated fault-tolerant data layers using **PostgreSQL, MongoDB, and Redis**, ensuring data durability under high concurrency.
- Developed centralized **observability** infrastructure (**OpenTelemetry, Promtail, Grafana Loki**), enabling rapid **debugging** and improving release confidence.
- Implemented secure, scalable **OAuth2/JWT authentication**, following modern security protocols and DevSecOps principles.

PROJECTS

MediInsight (Python, Django, MySQL, NLP, Machine Learning)

- Engineered an **automated healthcare analytics system** leveraging **natural language processing** and **machine learning**, achieving **76% illness identification accuracy**.
- Designed secure, extensible **APIs** to interface predictive models with external health systems.
- Developed an automated healthcare analytics system using **NLP** and **ML**, achieving **76% illness classification accuracy** on unstructured clinical notes.
- Built and deployed **secure APIs** to connect predictive models to external health platforms, ensuring **HIPAA-compliant data handling**.
- Applied **data anonymization and database security best practices** to support **regulatory compliance** and patient privacy.

Proximate (HTML, CSS, JavaScript, Firebase, Location Services, PayPal Payment Processor)

- Engineered a **real-time proximity-based chat application**, enabling user discovery and interaction within dynamic geographic bounds.
- Integrated **GraphQL APIs**, **real-time database sync**, and **Firebase Cloud Functions** for scalable backend support.

- Implemented **end-to-end encryption** and OAuth-based login for robust security and user trust.
- Added **location tracking** and **payment processing with PayPal**, supporting secure in-app transactions.

CloudSync (Node.js, MongoDB, Firebase, Redis, AWS, Stripe, RESTful APIs)

- Created a **cloud-native weather application** using **RESTful** architecture and **Redis** caching to enable **real-time inference** of weather patterns.
- Deployed user authentication using **Firebase** (email/password, Google sign-in), and **Stripe integration** for subscription handling.

ChainBurst (Python, Sockets, MySQL)

- Designed a **real-time multiplayer game** using **socket-based** messaging for **low-latency** cross-device communication.
- Optimized system design for efficient **concurrent data transfers** and **reliable synchronization**.

RESEARCH & PUBLICATIONS

Proposed Model of Speech Recognition using MFCC and DNN | ([view paper](#))

International Journal of Engineering Research & Technology (IJERT) · May 10, 2020

- **Project Objective:** The project focuses on converting human speech into text using speech recognition technology to enable voice-based input for applications and facilitate efficient human-machine interaction.
- **System Workflow:** The system architecture involves fetching speech data, preprocessing it using the Polygon smoothing algorithm, extracting features with MFCC, and performing classification using models like SVM and DNN.
- **Comparative Analysis:** While SVM is used for classification, the study shows that DNNs offer greater precision and accuracy, especially with large datasets, leading to a more robust speech recognition system.

An E-Health Patient Management System | ([view paper](#))

Grenze International Journal of Engineering and Technology (GIJET) · Jul 14, 2021

- **Remote Medical Access:** The system enables patients to connect with doctors virtually, share symptoms via voice input, and receive personalized healthcare insights through an intuitive web application.
- **Symptom Analysis Using NLP:** Patient symptoms are recorded, stored in a database, and analyzed using natural language processing (NLP) to ensure smooth and accurate communication with healthcare professionals.
- **AI-Powered Diagnosis Support:** A machine learning model predicts potential diseases based on symptoms, streamlining the diagnosis and treatment process and improving the overall accessibility and efficiency of healthcare delivery.