Smit Mehta
Software Engineer

Full-Stack Web Developer with **6.5+ years of experience** leading and mentoring teams | Skilled in **Python, Django, ReactJS, FastAPI, Azure, and Docker** | Delivered **20+ projects**, fostering collaboration and driving innovation to enhance productivity

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WORK EXPERIENCE

Software Engineer
Boston Consulting Group (BCG)

12/2021 - Present   *Bengaluru, India*
Achievements/Tasks

- Delivered **10+ digital solutions** over 3 years at BCG across industries like Technology, E-commerce, Healthcare, and Airlines. Specialized in **Full-Stack Web Development** using **Python (Django, Flask), ReactJS, Azure**, and **GenAI** to build **scalable, AI-driven applications**, optimizing operations and enhancing decision-making for clients.
- **Set Point Tuning Application**: Designed and developed a web app to monitor machines, handling **Back-End** logic and system integration. Reduced machine downtime by **20%**. (*Django, ReactJS, Docker, Azure Repos*)
- **Airline Pricing Application:** Designed a pricing analysis web app using AI algorithms, improving pricing accuracy and analyst efficiency. (*Django REST Framework, ReactJS*)
- **NESS Analytics:** Created dashboards with network graphs and charts for economic risk analysis, improving data visualization. (*ReactJS, Django, Recharts/D3.js*)
- Developed a Gen AI strategy for demand forecasting and innovation, improving accuracy and accelerating product cycles for a global cosmetics client. (FastAPI, Next.JS)

System Engineer
Tata Consultancy Services (TCS)

02/2019 - 12/2021   *Chennai, India*
Achievements/Tasks

- Contributed as a **Full-Stack IoT Web Developer**, building and integrating **Front-End** and **Back-End** solutions for scalable IoT-based platforms. Delivered impactful web applications and optimized hardware-software systems for industrial automation and simulations.
- **Developed** a human gesture-based **robotic arm** and **Endoscopy Simulation Hardware**, enhancing interactive simulation capabilities.
- **Kolam Bot**: Developed Python scripts to generate **1M+ automated patterns**, optimizing hardware and software communication
- **Digital Loom IoT Platform**: Built a full-stack IoT platform to manage saree designs, device statuses, and logs, improving production tracking efficiency. (*Raspberry Pi, Node-RED, Python*)
- Managed IoT-based projects, including Velu the Welder, Treadmill Simulator, Forklift Simulator, and Driving Simulator, improving system performance and user interactivity.

SKILL PROFICIENCY

Skill	Proficiency
Full-Stack Web Development	●●●●●
Python Programming	●●●●●
ReactJS (Front-End Development)	●●●●●
Django Web Framework	●●●●●
RESTful APIs	●●●●●
Project Management	●●●●○
Microservices Development	●●●●○
Cloud Platforms (Azure/AWS)	●●●○○

CERTIFICATES & COURSES

Azure Fundamentals (AZ-900)

Azure IoT Developer Specialty (AZ-220)

Introduction to Internet of Things
Offered by IIT Kharagpur

An Introduction to Programming the Internet of Things
University of California, Irvine – Coursera

TECHNICAL EXPERTISE

- Programming Languages: Python, JavaScript, TypeScript, SQL
- Back-End: Django, DRF, FastAPI, Flask, RabbitMQ, Redis, Celery
- Front-End: ReactJS, Next.js, Redux, Material-UI, React-Bootstrap, Axios
- Cloud Platforms: Azure (VMs, Functions, WebApps), AWS (EC2, S3)
- DevOps: Docker, Git, GitHub Actions, kubernetes
- Testing Frameworks: PyTest (for Python), Selenium, Cypress
- Databases: PostgreSQL, MySQL, MongoDB
- App Development (Basics): Ionic, Flutter

PERSONAL PROJECTS

Talaash (01/2019 - 04/2019)
- Design and developed a **web and mobile-based platform** using **Python Django** and **Ionic** to manage missing person records, perform **city-wise gender analysis**, and enable **facial recognition** for identifying individuals efficiently. Simplified record management and accelerated the identification process for the **Gujarat Crime Investigation Department**.
- *Reference:* Mr. Harshal Patel(cc-cid@gujarat.gov.in), Technical Advisor, CID Crime, Gujarat State.

IoT Campus Automation System ⬏
- Built a comprehensive automation system to manage college appliances and bell systems based on schedules. Integrated **brightness-based light control**, fire detection, and water level monitoring features to optimize energy usage and safety. This solution improved campus management and ensured efficient operations. (*Technologies:* Python, IoT Hardware, Node MCU, Sensors).

Smart Waste Segregator ⬏
- Developed an IoT-enabled dustbin capable of segregating **dry and wet waste** while gamifying the user experience by awarding points based on contributions. The system improved waste management efficiency and promoted eco-friendly practices. (*Technologies:* Android App, Node MCU, Node.js)

End-to-End Hospital Management Solution
- Designed and developed a **web-based Hospital Management Application** to streamline healthcare workflows for both **doctors** and **administrators**. The application enables doctors to write detailed medical reports directly into the system Meanwhile, administrators can efficiently manage tasks such as patient registration, appointment scheduling, invoicing, and generating procedure-based reports. With its **user-friendly interface** and modular design, the platform ensures seamless collaboration between doctors and administrators, enhancing overall operational efficiency and patient care.
- **Technologies**: React.JS, Material-UI, Django, Docker, NGINX, Python

EDUCATION

Master of Computer Applications
Ahmedabad University

05/2017 - 04/2019   *Grade : A-*

Bachelor of Computer Applications
Ahmedabad University

05/2014 - 05/2017   *Grade : A-*

LANGUAGES

English
Full Professional Proficiency

Hindi
Native or Bilingual Proficiency

Gujarati
Native or Bilingual Proficiency

Spanish
Elementary Proficiency

TECHNICAL EXPERTISE

IoT Protocols: MQTT, Bluetooth, NFC, Cellular

Hardware: ESP32, Nvidia Jetson Nano, Raspberry Pi, Arduino and Sensors

TECHNICAL TRAINING AND LEADERSHIP ACTIVITIES

Conducted Python training for Bascom Bridge students in Ahmedabad, enabling hands-on learning and skill development.

Organized and led a seminar on IoT and its applications at Ahmedabad University, showcasing real-world use cases.

Served as Course Coordinator for the Drone Development Team during independent study periods, managing project deliverables and student activities

ACHIEVEMENTS

Awarded "IoT-Based Smart Campus" as the Best Project during the final year of TYiMCA (BCA) for delivering an innovative automation solution with energy optimization and safety enhancements.

Successfully delivered 20+ projects with measurable results across web and cloud platforms.

Recognized as a top contributor in BCG for delivering data-driven, scalable web solutions.

Achieved 2nd Prize in BCG X Hackathon by developing an AI-powered solution that optimizes workflow automation for talent acquisition

INTERESTS

IoT & Product Development   Coding Challenges

Hiking & Travel   Hackathons