

Kushal Shahpatel

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PROFILE SUMMARY

- Innovative software developer with hands-on experience in designing and building scalable systems and distributed applications
- Half a Dozen of Corporate Experience as a Software developer working on Real-Time Projects.
- Skilled in Python, Javascript, ReactJS, React-Native, NextJS, TypeScript, NodeJS, AWS, DataStructures & Algorithms, Database Management, Artificial Intelligence and Machine Learning.
- I'm always looking for opportunities to grow as a professional and as a person with ability to adapt and learn on-the-fly.

EDUCATION

University of Alberta, Canada	Sept'24 – Dec'26
<ul style="list-style-type: none">• Master of Science, Major in Computing Science, Multimedia	
CVM University, GCET, India (GPA: 3.76/4)	July'20 – May'24
<ul style="list-style-type: none">• Bachelor of Engineering, Major in Information Technology.• Holds a Minor Degree in Internet of Things.• Relevant coursework: Data Structures, DBMS, Operating Systems, Computer Networks, Web development, Software Engineering, Artificial Intelligence, Soft Computing Techniques, Information and Network Security, Big Data Analytics, Data Science, Cloud Computing.	

SKILLS

Technical:	Python, C, C++, ReactJS, NextJS, NodeJS, React-Native, HTML, CSS, JavaScript, TypeScript, SQL, NoSQL, MatLab, Unity-3d, Artificial Intelligence, Machine Learning, Image Processing, Deep Learning, Neural Networks, Data-Science, Power BI, Tableau, Software Development, API Development, Microsoft Office & VBA, c#, .net, SAP, Agile/Scrum Models, UI/UX, AWS, Microsoft Azure.
Developer Tools:	VS Code, Git, Android Studio, Expo, Google Colab, MongoDB Compass, postman
Databases:	MongoDB, MySQL, GraphQL

PROFESSIONAL EXPERIENCE

TridyaTech, Ahmedabad, India	May'23 – June'23
Junior Software Developer (Summer Internship)	
<ul style="list-style-type: none">• Built an EV Ride Application to automate billing and streamline employee workflows using React-Native and Node.js.• Improved system efficiency by leveraging MongoDB for scalable data management.	
AlgoAcharya, Ahmedabad, India	Jan'24 – April'24
Junior Frontend Developer Intern (Co-op Internship)	
<ul style="list-style-type: none">• Contributed to two real-time projects: a Missing Child Web App and an AlgoTrading Platform.• Developed the front-end for a Missing Child Web App using React.js and AWS, reducing reporting time for authorities by 30%.• Enhanced the AlgoTrading Platform's UI using Next.js, improving user satisfaction by 15%.• Gained hands-on experience with API integrations.	

PROJECTS

BoozApp Source Code Link	May'23 - June'23
<ul style="list-style-type: none">• The EV Ride App facilitates Electric Bike rental for users looking to travel short distances.• It automizes the manual efforts made by the onsite employees.• It is a real-time scan and ride app that also generates the bill according to the usage.• Technology used: React-native, Expo Go, Node.js, MongoDB	

Automation in attendance system using Facial Recognition | [Source Code](#) | [Link](#)

Jan'23 - May'23

- The System that takes video of all students present in class.
- Using the Machine Learning Model put the present of the student whose images were detected, reducing manual efforts by 50%.

CVMU Admin Panel | [Source Code](#)

July'23 - Aug'23

- It is an Admin panel for the management of the whole minor degree across the university.
- Admin can create new faculties, give them credentials, create new subjects, announce the results, and admit the students.
- Technology used: React.js, Bootstrap, AWS, Node.js, MongoDB

Shadow Localization in Thermal Image

Sept'24 – Dec'24

- Developed advanced shadow detection models for thermal images using U-Net and U-Net++ architectures, incorporating spatial attention layers to enhance localization accuracy.
- Engineered multi-channel input pipelines by integrating edge map features and directional features, improving model performance on annotated datasets.
- Designed and prepared custom training data using the Roboflow platform, including annotation and preprocessing, to optimize models for real-world scenarios.

TECHNICAL CERTIFICATES

1. [Introduction to Artificial Intelligence by IBM](#)
2. [Machine Learning with Python by IBM](#)
3. [Data Science Fundamentals for Data Analysts by databricks](#)
4. [Software Architecture by University of Alberta](#)
5. [Introduction to the Internet of Things and Embedded Systems](#)