Khushbu Karki

Auckland, New Zealand

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 LinkedIn   GitHub   Portfolio

Objective

Software Developer with strong foundations in full-stack web development, API design, and cloud-native application deployment. Skilled in building scalable solutions using React, FastAPI, Python, TypeScript, and AWS, with hands-on experience in CI/CD automation, containerization, and DevOps practices. Passionate about crafting clean, high-performance code and delivering user-centric products that solve real-world problems. Currently completing a Master of Applied Technologies (Software Development) at Unitec, with full work eligibility in New Zealand under a 3-year Post-Study Work Visa.

Education

Master of Applied Technology (Software Development)   Jul 2024 – Nov 2025
Unitec Institute of Technology, Auckland
Key coursework: Machine Learning, Data Analytics, Cloud Computing, IoT, Advanced Web Development
Bachelor of Engineering (Electronics & Communication)   Aug 2017 – Aug 2021
Bipin Tripathi Kumaon Institute of Technology, India

Technical Skills

Programming: Python, SQL, JavaScript, TypeScript, Java, C++
Data/ML: Pandas, NumPy, scikit-learn, TensorFlow, SHAP, LIME, Streamlit
Visualization: Power BI, Tableau
Databases: PostgreSQL, MySQL, SQL Server
Cloud/DevOps: AWS (EC2, S3, IAM, Lambda, RDS), Render Cloud, Docker, GitHub Actions, Azure DevOps, CI/CD
Web/API: FastAPI, REST, React, Vite, Tailwind CSS
Practices: Agile Scrum, Version Control, API Integration, Automation, Infrastructure as Code (IaC)

Experience

Software Development Virtual Experience — Datacom (Forage)   Aug 2025 – Sep 2025
- Enhanced Python-based CI/CD in Azure DevOps, improving deployment reliability by 15%.

- Simulated client cloud automation and data workflows; collaborated in Agile iterations using Git.

Customer Service Representative — BP Connect, Kumeu   Jul 2024 – Present
- Managed high-volume POS operations with 100% accuracy; strengthened teamwork, prioritisation, and communication applicable to software delivery.

Intern — Centre for Development of Advanced Computing (C-DAC), Noida   Jan 2020 – Feb 2020
- Built a secure Java-based smart-card prototype integrating metro, retail, and payment access.

- Documented test procedures and validation workflows under senior engineers.

Intern — MANIT, Bhopal   Jun 2018 – Jul 2018
- Researched Variational Mode Decomposition (VMD) for signal analysis; conducted MATLAB experiments for noise filtering benchmarking.

Selected Projects

Weather Forecasting NZ (Live — GitHub)   Oct 2025
- Built a full-stack ML web app forecasting weather for major NZ cities.

- Served trained models via FastAPI backend; React frontend with city visuals and interactive dashboards.

- Automated deployment via GitHub Actions CI/CD to Render (API) and GitHub Pages (web).

Predictive Analysis in Breast Cancer Screening   Feb 2024 – Nov 2025
- Designed hybrid CNN + ViT classifier with 12% accuracy improvement vs baseline.

- Applied explainable AI (SHAP/LIME) for model transparency in clinical decision support.

Loan Default Prediction   May 2025

- Trained Random Forest to predict default risk (87% precision) and conducted feature importance analysis.

- Built an interactive Streamlit app with live prediction dashboards for stakeholders.

Certifications

- AWS Academy Cloud Foundations (2025)

- AWS Skill Builder – Cloud Practitioner Essentials (In Progress)

- IBM Data Analysis with Python (2022)

- Accenture Developer Virtual Program (2023)

- Java Fundamentals (Coding Blocks, 2022)

Achievements & Activities

IEEE Event — IEEEXtreme 19.0: Ranked #1 in New Zealand in a 24-hour competitive programming event.

HackerRank Software Engineer Certification: View Credential **HackerRank Frontend Developer(React) Certification:** View Credential **HackerRank SQL(Intermediate) Certification:** View Credential

Hobbies

Table Tennis • Dance • Photography • Sitar