

# ROHAN BANSAL

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## WORK EXPERIENCE

### VeecoTech Solutions ECommerce SDN BHD (Developer)

MAY 2022 - OCTOBER 2022

*Python • SQL • PowerBI • Data Analytics • Statistical Analysis • REST API • OpenCV • Google Tesseract • SCRUM*

- **Designed, developed, tested, and documented** a comprehensive government license application platform, architecting the solution using the **PHP Laravel** framework with a **MySQL** backend and implementing sophisticated **REST API** infrastructure.
- Pioneered advanced **image processing** and intelligent **OCR solutions leveraging OpenCV and Google Tesseract** with proprietary algorithms, resulting in an improved data accuracy of 25% and a 60% reduction in manual data entry/user input requirements.
- **Collaborated effectively in a SCRUM environment** as part of a 4-member team, successfully managing sprint planning and backlog refinement, and contributing to a 95%+ sprint completion rate.

### Goh Brothers Motor SDN. BHD (Software Developer - Contract)

MARCH 2020 - AUGUST 2020

*Ionic • Angular • Node.js • JWT • CRUD Systems • Mobile Development*

- **Designed and developed software solutions** for comprehensive staff and client management system using modern web technologies and responsive design principles.
- **Built an intuitive user interface** managing 100+ vehicles and 80+ staff records across multiple platforms.
- **Collaborated with stakeholders** to understand business requirements, documenting and translating into technical requirements for comprehensive management system development
- **Adapted quickly to changing requirements** while maintaining 90% user satisfaction rating and ensuring accessibility standards

### Linear Online SDN BHD (Network Engineer)

JANUARY 2020 - JUNE 2020

*Network Analytics • Data Analysis • Network Security • Firewall • Data Interpretation • Network Monitoring*

- **Configured and deployed network infrastructure** including routers and switches.
- **Monitored and analyzed network** performance data, identifying anomalies and trends in system performance to ensure reliable infrastructure
- **Implemented security protocols** and access controls to protect company network resources.
- **Performed regular system monitoring** and optimization to ensure reliable network performance.

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## PROJECTS

### Personal Portfolio Website <https://rohan-bansal.vercel.app/>

- Designed and developed a responsive portfolio website to showcase software, web, and data projects using React and Tailwind CSS.
- Implemented smooth, accessible animations with Framer Motion while respecting reduced motion preferences.
- Deployed and maintained the site on Vercel with production builds and continuous deployment.

### Sentiment Analysis Dashboard

- Performed end-to-end data analysis on large scale Twitter Covid-Vaccine datasets, including cleaning, feature engineering, and sentiment classification.
- Implemented and evaluated multiple machine learning models (LSTM, Naive Bayes, SVM), achieving over 80 percent classification accuracy.
- Designed an interactive dashboard to communicate insights clearly to non-technical users.

### Threat Analysis on Mininet Simulated ICS Network

- Conducted network traffic analysis and classification in a simulated industrial control system environment.
- Designed and tested attack detection logic using controlled Mininet simulations and repeatable experiments.
- Documented assumptions, limitations, and evaluation methods to ensure results were interpretable and reproducible.

### Enterprise Web Solutions (Freelance)

- Delivered multiple responsive business websites with clear information architecture and performance focused implementation.
- Worked directly with clients to translate business requirements into maintainable, production ready solutions.
- Optimized layouts, asset loading, and accessibility across devices.
- <https://www.thesanctuarytree.com.au/> , <https://www.donaldcoaccounting.com/>

## SKILLS

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### AWS Cloud Services

AWS CDK, Lambda, EC2, S3, RDS

### Software Development:

Full SDLC, Agile methodologies, Code reviews, Technical standards, Test automation, CI/CD

### Collaboration:

Agile methodology, Sprint planning, Stakeholder collaboration, Technical Documentation, Team growth

### Dev Ops & Tools:

Git, Docker, Linux, Performance optimization, Level 3 support, OpenCV, Google Tesseract, ML Algorithms

### Programming:

Python (Pandas, scikit-learn), JavaScript, PHP (Laravel), Node.js, DAX, RESTful APIs, JWT

### Data Analysis:

Statistical Analysis, Data Integration, Data Visualization  
MySQL, MongoDB, Power BI, Tableau

## CERTIFICATIONS

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- **MTA (Microsoft Technology Associate)**
- **CEH (Certified Ethical Hacker)**

## EDUCATION

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### Master of Computer Science

Curtin University

FEBRUARY 2023 - FEBRUARY 2025

### Bachelor of Computer Science

UOW Malaysia KDU Penang

JUNE 2020 - AUGUST 2022

## KEY STRENGTHS

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- **Relevant corporate experience** with demonstrated success in data analysis and business intelligence across multiple industries
- **Technical expertise in required platforms:** SQL, Python, PowerBI, Excel (PowerPivot/PowerQuery)
- **AWS Cloud expertise** with hands-on experience across multiple services and architectures.
- **Quick to adaptat to new technologies** and emerging platforms.