

VISNU SINGH

Software Engineer | Full-Stack Development • Cloud Computing • AI/ML Enthusiast

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SUMMARY

Recent Computer Science graduate with hands on-on experience in full stack development, AI/ML course work, and cloud-based solutions. Build responsive booking platforms, estimation tools, and real time applications using JavaScript (Node.js/Express), python, AWS and Firebase. Seeking a graduate Software Engineer role where I can leverage my strong foundation in algorithms, cloud services, and user-centric design to deliver efficient, scalable products.

SKILLS

- Programming - Python, SQL, Pandas, NumPy, scikit-learn, Java, Jupyter, C Language
- Web & Framework – HTML5, CCS3, Node.js, Express, React, Firebase Hosting, WordPress
- Databases & Cloud – MySQL, Firebase (Realtime Database, Authentication & Storage), AWS (EC2, S3, Lambda), SQLite, NoSQL, MongoDB
- Tools - GitHub Actions, Flask, CI/CD, AWS (S3, EC2, Lambda, EC2 self-hosted runners), Linux

EXPERIENCE

Software Developer – Personal Profile Portfolio [\[Link\]](#)

06/2025 - Present

- Designed and deployed a responsive portfolio site using HTML5, CSS3, JavaScript, hosted on Firebase with Cloudflare CDN for custom domain.
- Showcases Projects, skills and experience with modern UI and accessibility best practices.
- Integrated Google Analytics 4 to track engagement and optimize site performance.

Web Developer –Online Learning Platform[\[GitHub\]](#)

11/2024 - 05/2025

- Stack: Node.js, Express, MySQL, HTML5, CSS3, JavaScript, Multer, JWT authentication.
- Developed a full-Stack platform enabling professors to upload/manage video lectures and students to browse/search courses in real-time.
- Implemented role-based access control (professor vs student), reducing, unauthorised access attempts by 30%.
- Leveraged MySQL for course metadata management and firebase for media storage, cutting initial pages load times by 25%.

Software Developer – Voice Recognition System [\[GitHub\]](#)

01/2025 - 05/2025

- Stack: Python, Speech Recognition, pytsx3, pyaudio.
- Built a voice controlled assistant capable of recognizing and responding to user commands using offline and online speech processing.
- Integrated text to speech and command parsing to trigger system level actions.
- Optimised input handling to reduce recognition errors by 40%, increasing overall command accuracy in noisy environments.

Software Developer – Smart Security Camera [\[GitHub\]](#)

09/2024 - 12/2024

- Stack: Python (OpenCV, NumPy), Flask(dashboard).
- Build a real time motion detection system that captured and annotated incidents automatically with 92% accuracy.
- Deploy on AWS EC2 to support 30 FPS streaming with latency <200 ms: generated timestamped incident log in SQLite for post analysis.
- Created a Flask-Based dashboard for live video viewing and incident review, improving threat-response times by 40%.

Freelance Web Developer – Booking and Price Estimation

06/2024 - 08/2024

- Designed and build a responsive business website (HTML, CSS3, JavaScript) featuring a home page, estimation and booking appointment system, handling 400+ requests/month.
- Integrated Google Firebase Realtime Database for client-side data storage and retrieval, improving data access speeds by ~20%.
- Collaborated with the client to define requirements, deliver features on time and ensure 100% satisfaction with UI/UX and functionality.

EDUCATION

Bachelor of Science; Major in Computer Science – University of Northampton

09/2024 - 05/2025

- Relevant Modules: Artificial Intelligence, Machine Learning, Media Technology, Cyber Security, Cryptography, Modern Databases.

Bachelor of Science; Major in Computer Science – Assumption University

05/2021 - 03/2024

- Relevant Modules: Object-Oriented Programming, Data Science, C, Python, Data structure & Algorithms, Cloud Computing.

CERTIFICATIONS

- Web site by Word Press [\[View Credential\]](#) 02/2024
- AWS Academy Cloud Foundations [\[View Credential\]](#) 02/2024