

Md. Hasin Ishraq

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Education

United International University (UIU), Dhaka, Bangladesh 2022 – Present
Bachelor of Science in Computer Science and Engineering; CGPA: 3.79 (Ongoing)

Projects

FundBridge

[GitHub Repo](#)

- Designed and developed a peer-to-peer lending platform connecting borrowers with lenders through automated credit scoring, EMI-based loan funding, and a multi-gateway digital wallet.
- Architected a distributed backend of 6 Spring Boot microservices with Eureka service discovery and centralized Spring Cloud Config, and implemented JWT authentication with role-based access control and Sumsu KYC verification.
- Built a wallet module supporting Stripe and SSLCommerz payment processing with balance holds and ledger tracking, alongside an admin dashboard for KPI monitoring and audit logging.
- Technologies: React 19, Vite, Tailwind CSS, Java 21, Spring Boot, Spring Cloud, MySQL, Stripe, SSLCommerz, Sumsu

Autonomous Road Damage Detection & Mapping Robot

[GitHub Repo](#)

- Trained and fine-tuned a YOLOv5 Nano model on a custom-annotated dataset spanning two classes (Pothole and Crack) for real-time road damage detection.
- Deployed the model on a Raspberry Pi to process a live camera feed and geotag each detected defect using coordinates from an onboard GPS module.
- Implemented the A* search algorithm for shortest-path route planning between two GPS coordinates, enabling efficient autonomous navigation across mapped road segments.
- Built a Flask-based REST API and live map dashboard to visualize detected road damage in real time, alongside a browser-based manual control interface and an autonomous human-following mode.
- Technologies: Python, YOLOv5 Nano, OpenCV, Flask, Linux, Raspberry Pi, GPS (NMEA)

Achievements

- **Champion:** UIU CSE Project Show - Microprocessor & Microcontroller Lab Category
- **1st Runner-Up:** UIU CSE Project Show - Electronics Lab Category
- **5th Runner-Up:** UIU CSE Project Show - System Analysis & Design Lab Category

Technical Skills

- **AI & Machine Learning:** PyTorch, OpenCV, YOLO, NumPy, Pandas, Scikit-Learn
- **Programming & Languages:** Python, C++, C, Java, JavaScript, TypeScript, SQL, PHP
- **Frameworks & Web:** Spring Boot, React, Node.js, Next.js, Express
- **Databases, Cloud & DevOps:** PostgreSQL, MySQL, MongoDB, Docker, Git, Linux, AWS
- **Architecture:** Microservices, Event-Driven Design, OAuth 2.0