

VARUN ANAND

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Education

Trinity College Dublin

B.A. Moderatorship Honors in Computer Science

Dublin, Ireland

Expected Graduation: May 2025

Work Experience

Liferay International

Jan 2024 – May 2024

Student Software Engineer

Dublin, Ireland

- Designed and developed a **Student Job Portal** using **SpringMVC**, **Liferay DXP**, and **JavaScript**, streamlining recruitment for over **50** companies and reducing average recruitment time by **25%**.
- Led a Front-End Development Team of **4** members, creating **15** responsive **UI/UX** components and mentoring junior developers in best practices within an **Agile framework**.
- Delivered scalable and maintainable solutions, ensuring **99.9% system uptime** and accommodating a user base growth of **150%**.

Dell Technologies

Jan 2023 – May 2023

Student Software Engineer

Dublin, Ireland

- Developed a custom **Named Entity Recognition (NER)** model using **Python** libraries **SpaCy** and **Flair**, processing over **10,000** Dell support logs with **92%** accuracy.
- Automated support query categorization using **Python** scripts, reducing manual processing time by **33%**.
- Leveraged the **ChatGPT API** to automatically generate synthetic data for testing purposes.
- Collaborated with a cross-functional team of **10** members across **4 Agile sprints**, utilizing **GitHub** and **Jira** for task management.

Projects

Enigma | [Source Code](#)

Next.js | **React.js** | **TypeScript** | **AWS EC2**

- Developed a **cloud-based financial SaaS platform** enabling real-time transaction display and fund transfers across multiple bank accounts.
- Implemented **RESTful APIs** with **Node.js** and **TypeScript**, integrating **Plaid** and **Dwolla**, ensuring scalability and secure SSR authentication on **AWS EC2**.

Dynamic Flight Pricing Engine | [Source Code](#)

Python (Flask) | **React.js** | **PostgreSQL** | **scikit-learn**

- Designed a dynamic pricing engine for Ryanair flights using **Flask** and predictive models, resulting in a **10%** revenue increase.
- Developed **Linear Regression** and **Decision Trees** models with **95%** accuracy, handling up to **1,000** requests/minute via **RESTful APIs**.

Pedestrian Crossing Analysis System | [Source Code](#)

C++ | **OpenCV**

- Developed a system to automatically analyze over **1,000** images of pedestrian crossings from a car's perspective, handling varying lighting and environmental conditions with **90%** accuracy.
- Applied advanced **computer vision** techniques, including **region-based processing** and **edge detection**, to locate and evaluate pedestrian crossings in static images, improving detection speed by **30%**.

Leadership

Assistant Child Protection Officer, Voluntary Tuition Program | Trinity College Dublin

Sep 2024 – Present

- Managed and maintained **program documentation**, ensuring accuracy and compliance with **safeguarding policies**.
- Collaborated with **volunteers and coordinators** to deliver effective tutoring sessions, enhancing student engagement and outcomes.

Technical Skills

Languages: Python, Java, C++, SQL, JavaScript

Developer Tools: AWS (Certified Cloud Practitioner), Docker, Kubernetes, Git, Jira

Libraries/Frameworks: ReactJS, NodeJS, Spring Boot, Flask, GraphQL, JUnit, Liferay DXP

Databases: MySQL, PostgreSQL, Oracle

Certifications

Amazon Web Services

AWS Certified Cloud Practitioner | [View Certificate](#)

Dublin, Ireland

Dec 2024 – Present