

Anugrah Sebastian

Software Engineer

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📍 Glasgow, United Kingdom

Personal Statement

Accomplished Full Stack Developer with over 2+ years of experience in crafting, building, and sustaining web applications. Proven mastery in leveraging React.js, Java Spring, Python Django and Node.js to engineer intuitive interfaces and robust back-end systems. Driven by a passion for problem-solving, I deliver groundbreaking solutions that propel business growth. Eager to contribute my technical expertise and creative vision to a dynamic development team.

Experience

Janayitri Rudra Ltd.

(Software Engineer)

May 2024 – Present

Glasgow, United Kingdom

- Developed *backend infrastructure* using **Spring Boot** framework, ensuring seamless integration with frontend.
- Integrated **JWT authentication and authorization** to ensure secure API access, enhancing *system security*.
- *Deployed* and configured backend services on the company's **VPS**, optimizing server performance and reliability.
- Designed and developed **MongoDB schemas** to streamline *database management* and ensure scalability.
- Conducted comprehensive *API testing* using **Postman** to validate API endpoints' functionality and reliability.
- Developing a **React** framework-based user wallet portal and a mobile app, providing clients with *payment solutions*.

Aquimo Inc.

(Software Engineer)

May 2022 – August 2023

Delhi, India

- Led *frontend* development of responsive Web Applications with **React.js**, increasing user session duration by 30%.
- *Backend* services development, user asset management with **Node.js**, achieving a 20% reduction in response time.
- Proposed a new *Backend* infrastructure for a payment system utilizing **Java Spring Boot** for a *SaaS* product.
- Integrated *frontend* application with backend *microservices*, **RESTful APIs**, leading 15% improvement in accuracy.
- Managed a **MongoDB database** over *1 million user accounts*, schema design, query optimization, and data integrity.
- Conducted thorough **cross-browser testing** across Chrome, Firefox, and Safari, ensuring a consistent 99.2% *user experience* across platforms.

Publicis Sapient

(Associate Data Analyst)

July 2021 – May 2022

Delhi, India

- Deployed customer loyalty analytics for the e-commerce platform with **React.js**, yielding a 5% boost in order value.
- Implemented anomaly detection techniques using **FBProphet machine learning model** to analyze product purchases, enhancing anomaly detection accuracy by 20% and revealing previously unknown seasonal trends.
- Created interactive dashboards with **Adobe Analytics** and **Google Analytics**, reducing *data analysis* time by 15%.
- **Effectively communicated** findings and insights to non-technical audiences, achieving increased comprehension rate during key stakeholder presentations, and facilitating informed decision-making across the organization.

Education

University of Glasgow

(Master of Sciences in Computer Systems Engineering)

Sep 2024

Glasgow, United Kingdom

- **Relevant Coursework:** Real-time Embedded System programming (C++), Data Science & Systems (Python), Software Engineering (Java), Internet Technology (Django), Cyber Security, Digital Signal Processing, VLSI, Integrated System.
- **Thesis:** Revolutionizing Space Exploration: 3D Scanning for Defect-Free 3D Printed Components.

- **Relevant Coursework:** Data Structures, Algorithm design and analysis, Database Management Systems, Web Technology, Object Oriented Programming, Machine Learning, Software Testing & Quality Assurance, Compiler Design, Operating System, Linux Programming, Digital Communication, Computer Networks, Information Security, Applied Mathematics, Electronic Devices, Applied Physics, Computer Graphics & Multimedia, Artificial Intelligence.
- **Thesis:** Dynamic Sentiment Analysis of Code-Mixed Twitter Feeds with Flask.

Technical Skills

Programming:	Java, Python, Javascript, C, C++, HTML, CSS, Typescript, MatLab
Technologies:	React.js, Angular, Django, Flask, Spring Boot, Express.js, Next.js, Tailwind CSS, Node.js
DBMS:	MongoDB, PostgreSQL, MySQL, SQLite
Cloud:	AWS EC2, AWS Elastic Beanstalk, Hostinger
Version Control:	Git, GitLab
CI/CD pipelines	Docker, Kubernetes

Certifications

Meta Front-End Developer	<i>issued by Meta</i>	[Link]
Neural Networks and Deep Learning	<i>issued by DeepLearning.AI</i>	[Link]
Machine Learning	<i>issued by Stanford University</i>	[Link]
Tools for Data Science	<i>issued by IBM</i>	[Link]
Convolutional Neural Networks	<i>issued by DeepLearning.AI</i>	[Link]

Projects Highlights

CarSeek Rentals | *Python, JavaScript, Django, SQLite, Bootstrap, REST APIs* [\[GitHub\]](#)

- Led development of user authentication system with role-based access control, ensuring robust security measures.
- Directed the creation of dynamic car listings with real-time availability checks, driving an enhanced user experience.
- Guided the development of a secure booking system, integrating with a payment gateway for efficient transactions.
- Managed the development of customised user dashboards, optimising booking management & transaction history.
- Oversaw the deployment of the application on PythonAnywhere, ensuring accessibility and scalability for all users.

Centralized Hazard Detection System | *Raspberry Pi, I2C, TCP/IP, C++ scripting, Java, Linux, Multithreading* [\[GitHub\]](#)

- Led integration of CO2 and heat sensors via I2C for precise data exchange.
- Spearheaded autonomous WiFi detection, ensuring seamless connection to optimal networks.
- Developed C++ scripts for real-time data processing and utilized CMake for efficient build management.
- Created and managed the collection and examination of data from edge nodes, facilitating prompt identification and reporting of hazards in real-time through a comprehensive client-server framework utilizing TCP/IP sockets.
- Created a graphical user interface (GUI) for the central node using Java's JFrame and the Qt interface library.

Code – Mixed Sentiment Analysis | *Python, JavaScript, Flask, Bootstrap, XLM-RoBERTa, PyTorch, SQLite* [\[GitHub\]](#)

- Enhanced sentiment analysis model for code-mixed languages, improving accuracy and effectiveness.
- Engineered a website utilizing Flask server-side rendering feature, optimizing performance, and user experience.
- Created a user-friendly web interface capable of generating visualizations based on derived sentiment analysis results, enhancing data interpretation and presentation.

Natural Scene Text Detections | *Python, OpenCV, Google Tesseract, Jupyter Notebook, Machine Learning* [\[GitHub\]](#)

- Conducted comprehensive scientific analyses of various OCR systems to assess their performance.
- Developed an enhanced methodology for improving natural scene text detection using Google Tesseract.
- Integrated the EAST text detector with Google Tesseract to enhance natural scene text detection capabilities.
- Achieved increased accuracy in natural scene detection and documented the results for further reference.