

# ROHAN BAGWE

<https://rohanbagwe.tech/pro>

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Dublin, Ireland

"Full Stack Engineer with experience in cross-platform System Design, Software Development, Machine Learning, and AI, seeking to implement strategic IT solutions that lead to greater conversions while being scalable, secure, and maintainable"

## EDUCATION

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**Trinity College Dublin, University of Dublin, Ireland**  
MSc Computer Science - Intelligent Systems

Sept 2019 – Present

**Coursework:** Advanced Software Engineering, Machine learning, Text Analytics, Artificial Intelligence, Computer Vision, Data Visualisation

**University of Mumbai, St. Francis Institute of Technology, India**  
Bachelor of Engineering - Computer Engineering, **71.18 %, Distinction**

June 2011 – June 2015

**Coursework:** Operating System, Distributed System, Machine Learning and AI, NLP, Web Technologies, Data Structures, and Algorithms

## WORK EXPERIENCE

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**Mastercard**  
Software Engineer II, Dublin, Ireland

Open Banking Solutions

Sept 2020 – Present

- Developing and maintaining Open Banking Connect and Protect APIs based on microservices architecture (*Java Spring Boot, Postgres, CosmosDb, MongoDB, Thymeleaf, Splunk*)
- Developing product CI/CD pipelines for code deployment on PCF and Azure cloud (*Jenkins, Bitbucket, PCF, Azure Cloud*)
- Actively participating in new feature elaborations, code reviews, feature exchanges, bug-fixes, knowledge transfer and trainings.

**Craft Vision**  
Full Stack Engineer (Part-time), Dublin, Ireland

X-Margin, E-Learning

Feb 2020 – Aug 2020

- Working as a Full Stack Engineer to develop product features such as Custodian Integration, Enterprise-wide Single Sign-On solution for X-Margin, a cryptocurrency trading platform (*Spring Boot, MongoDB, OAuth 2.0*)
- Architected centralized build server and automated product CI/CD pipelines for code deployment (*AWS, Jenkins, Ansible, Nginx*)
- Developing backend for E-Learning platform using python Django and integrating with Zoom to schedule and host online lectures
- Managing Git workflows and cloud infrastructure on AWS: EC2, S3, IAM, Lambda, SES and API Gateway to ensure high availability

**Oracle Corp.**  
Associate Technical Analyst at OFSS, Cloud Research, and Development, India

Oracle Banking Platform

July 2017 – Feb 2019

- Worked closely with SMEs, Product Managers and contributed proactively in System Design discussions to deliver high-quality solutions for OBP DevOps
- Developed Ansible scripts to automatically provision and update system components to speed-up infrastructure operations
- Created Docker images of OBP components from scratch and successfully completed the first-ever setup of OBP on the multi-containerized platform thereby reduced release cycle time by 20% (*Java, Docker Compose*)
- As a part of the containerized deployment, integrated Kubernetes cluster from scratch to provide comprehensive infrastructure and orchestrated containers across multiple nodes. Developed the first YAMLs in order to create Deployments, Services, and ConfigMaps for OBP components (*Kubernetes*)

**Tata Consultancy Services**  
Associate System Engineer at TCS, India

TCS iON: Cloud-based ERP Solution

Oct 2015 – June 2017

- Worked as a Full Stack Engineer for the Finance and Accounting (F&A) module of TCS – iON ERP Solution
- Designed, developed and tested backend APIs of key product features in core accounting modules: Payment Instruction, General Ledger, Accounts Payable/Receivable, Inventory-F&A Integration (*Java, AJAX, Hibernate*)
- Captained an end-to-end Design and Development of Banking Gateway Module that integrates web services of client banks with iON Solution to process and track payments (*Java SOAP web services, SoapUI, Apache Axis2*)
- Implemented cross-solution integration with the help of a Kafka broker thereby enabled auto-creation and approval of transactions in Inventory-F&A Integration with a 50% reduction in customer's time and efforts (*Java, Kafka*)

**PROJECTS** More projects available at <https://github.com/rohan-tcd>

- Designed and developed **Resilient Backend for Yaatra Services** using Django REST Framework, Gunicorn, ELK for centralized log management, PostgreSQL and Virtualized the components using docker, scaled with load-balancing tool Nginx (*Heroku, CircleCI*)
- Projects Related to Data Science and Visualization: **Natural Language Processing, Data Visualization, Web Scraping, AI-based Conversation Agent, Machine Learning algorithms**

## SKILLS and INTERESTS

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**Backend:** Experienced with Spring, Django, Flask, Dash; **Frontend:** Familiar with Angular, HTML5, CSS, Typescript, Plotly

**Platform:** Linux/UNIX; **Database:** MySQL, PostgreSQL, and MongoDB; **Languages:** Python, Java; **SCM:** Git, SVN

**DevOps:** Docker, Docker Compose, Kubernetes, Ansible, Jenkins, Kafka, ElasticSearch, Kibana, AWS, Heroku, Circle CI, Nginx, Tomcat; Familiar with Prometheus, Grafana, Jenkins X