

Rithin Chalumuri

Senior Software Engineer | rithin.ch
rithin.chalumuri@outlook.com | Birmingham, UK

EDUCATION

UNIVERSITY OF BATH

MSC ARTIFICIAL INTELLIGENCE

Jan 2021 - April 2023 | Online

Part-time Student

Modules include: ML, Applied AI, Reinforcement Learning, NLP, Robotics and Machine Vision

COVENTRY UNIVERSITY

BSC COMPUTER SCIENCE (HONS)

2016 - 2019 | Coventry, UK

First Class Honours

Thesis: Session-Based Vehicle Recommendation using Graph Neural Networks for online automotive retail applications.

SANCTA MARIA INTL SCHOOL

GCE A-LEVELS

2013 - 2015 | Hyderabad, India

Mathematics (A*), Further Mathematics (B), Physics (B), ICT (B)

SKILLS

PROGRAMMING

Languages:

Python • C# • JavaScript • Go

Frameworks:

.NET Core • Node.js • React • PyTorch

TECHNOLOGIES

Azure • AWS • Linux

Docker • DevOps • CI/CD

SQL • MongoDB • GraphDB

Serverless • Git • Automation

COURSES

UNDERGRADUATE

Software Engineering

Big Data and Information Retrieval

Algorithms and Data Structures

Intelligent Agents

Full Stack Web and Cloud Development

Real-time Distributed System Design

Software Quality and Process

Management

LINKS

Website:// rithin.ch

Github:// [rithinch](https://github.com/rithinch)

LinkedIn:// [rithin-chalumuri](https://www.linkedin.com/in/rithin-chalumuri)

StackOverflow:// [rithin-chalumuri](https://stackoverflow.com/users/10411111/rithin-chalumuri)

EXPERIENCE

PINEWOOD TECHNOLOGIES | SENIOR ENGINEER, PLATFORM

Jan 2021 - Present (Senior Software Engineer) | Remote

Jan 2020 - Jan 2021 (Software Engineer) | Birmingham, UK

Jul 2019 - Jan 2020 (Graduate Software Engineer) | Birmingham, UK

- Lead and delivered various projects in the areas of DevSecOps, Web and API App Security, Backend Cloud Services and Platform Improvements.
- Designed and implemented an internal framework for writing data processing jobs; saving development time, cutting a lot of code repetition and centralising performance monitoring with Azure App Insights.
- Designed and implemented a Global Multi-Factor Authentication System.
- Automated various manual project tasks with python scripts; improved overall team productivity and drastically reduced time to delivery.
- I was trusted with first-line responsibilities of Team Lead when absent, mentored and provided technical guidance to a team of 6+ developers.

PINEWOOD TECHNOLOGIES | SOFTWARE ENGINEER

Aug 2018 - Jul 2019 (Part-time) | Remote

Aug 2017 - Aug 2018 (Internship) | Birmingham, UK

- Full Stack Development in an agile team. Fixed bugs, security vulnerabilities and developed several product features that were shipped to customers frequently.
- Architected and developed a serverless URL Shortening Service for sending short links via SMS to end-users across the globe. Set up, managed and deployed all infrastructure for production environment on Azure.
- Tech Stack: .NET, Microsoft Azure, C#, Python, JavaScript, HTML, CSS, SQL

SELECTED PROJECTS

SESSION-BASED VEHICLE RECOMMENDATION SYSTEM

Built an ML model that can serve used vehicle offer recommendation in real-time on automotive websites. Collected and pre-processed real clickstream data from [carstore.com](https://www.carstore.com). Adapted graph neural network architecture for the problem. Trained and deployed to the cloud using PyTorch and Azure ML Service. More info [here](#).

EVENT DRIVEN MICROSERVICES BACKEND

Designed and developed a full event-based microservices backend for a news application domain. Microservices were built in Node.js using Koa and containerised with Docker. More info [here](#).

SCALABLE SERVERLESS API BACKEND

Lead a team of 4 to develop a basic aircraft maintenance web application. Responsible for the entire backend platform architecture. Opted MongoDB for data storage and Azure Functions. Set up CI/CD pipelines and adopted DevOps principles. Handled complete deployment of cloud infrastructure in Azure. More info [here](#).

AWARDS

CAMBRIDGE OUTSTANDING LEARNERS AWARD

Sep 2014 | Hyderabad, India

Achieved the **highest grade (98)** for AS-Level **Mathematics** throughout India. Topics covered include Calculus, Vectors, Series and Functions.