

Rithin Chalumuri

Senior Software Engineer | rithin.ch
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EDUCATION

COVENTRY UNIVERSITY

COMPUTER SCIENCE BSc (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

Frameworks:

.NET Core • PyTorch • Flask • KoaJS

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

Operating Systems and Security

Logic and Sets

Theoretical Aspects of C.S

Enterprise Information Systems

Full Stack Web and Cloud Development

Real-time Distributed System Design

Computer Architecture and Networks

Creative Thinking For Business

Designing for Usability

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/1041444/rithin-chalumuri)

EXPERIENCE

PINEWOOD TECHNOLOGIES | SOFTWARE ENGINEER, PLATFORM

Jul 2019 - Present | 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.
- 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 (PART-TIME)

Aug 2018 - Jul 2019 | Birmingham, UK

- Designed and implemented a Global Multi-Factor Authentication System.
- 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.

PINEWOOD TECHNOLOGIES | SOFTWARE ENGINEERING INTERN

Aug 2017 - Aug 2018 | Birmingham, UK

- Full Stack Development in an agile team. Fixed bugs, security vulnerabilities and developed several product features that were shipped to customers frequently.
- 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**. 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.