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**
LinkedIn:// **rithin-chalumuri**
StackOverflow:// **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.