Atri Hegde

Education

SEP 2022–JUL 2027
University of Sheffield - Integrated Masters in Software Engineering (Year in Industry)

On Track for a 1st. Relevant Modules: Software Hut (91%), Functional Programming (88%), Java Programming (86%), Introduction to Software Engineering (78%)

SEP 2020–AUG 2022
Reigate College - A-Level Maths, Physics, Chemistry, Computer Science (AAAA)

OCT 2018–AUG 2020
St Bede's School - 11 GCSEs, including Maths, English Language

Technical Skills

Java: JavaFX, Java Swing, Java Spring, JUnit Testing

Ruby: Ruby on Rails, Devise, Sinatra

Python: NumPy, Matplotlib, Pandas, Flask, Seaborn

C#: ASP.NET Core, EF Core, Avalonia UI, Uno Platform

Web Dev: Next.js, Angular, Typescript, tRPC, TailwindCSS, Framer Motion, Resend, NGINX, Certbot

DB: MySQL, libSQL, SQLite, PostgreSQL, MSSQL

DevOps & Tools: Nix, Docker, Docker Compose, Digital Ocean, Azure, AAD, AWS, OAuth, Linux, Microsoft Power Automate, Windows Server

Applications: Microsoft 365, Notion, Emacs, Neovim, Loom, Vercel, Figma

Other Languages: Rust, GoLang, Haskell, Shell, ROS, ROS2

Work Experience

ROS2 Development tools (University of Sheffield)   JUN 2024–Present
- Proposed and designed a plan for multi-platform development for ROS2 with Turtlebot3 waffle robots for the University of Sheffield, working under the Multidisciplinary Engineering Education Department.
- Leveraged risk management skills to make a contingency plan
- Implemented and documented the system using Nix, then Docker (docker-compose)
- Created readable and maintainable code with documentation/user instructions

Founder of LiteSite Limited (https://litesite.uk)   MAR 2024–Present
- Founded a company that creates websites and provides digital infrastructure for businesses
- Collaborated with business partner to draw up contracts and perform accounting tasks
- Leveraging CI/CD, Linting tools, Full Stack development, Deployment Pipelines, Uptime monitoring, CRM, Marketing Funnels, Automations and analytics tools
- Using Agile Development principles to accelerate time to production
- Honed communication and problem-Solving skills with Sales and Demo calls with clients

Legal and General   JUN 2022
- Gained work experience for 1 week shadowing the Head of Services
- Automated a 4 step manual, cross departmental process into an automated pipeline whilst logging results to Excel sheets as required

Projects and Experience

Digital Catalogue and Inventory Management for APSL JAN 2024–MAY 2024

- Lead a team of 7 to design and implement a software solution to digitise the current paper based management of experiments and materials for the Advanced Polymer Sintering Laboratory at the University of Sheffield
- Developed a software solution using Ruby on Rails, Devise for SSO, GitLab and Agile programming concepts
- Used Leadership skills to smoothly plan and manage project for 2+ months

Engineering You're Hired! JAN 2024

- Worked in a multidisciplinary team across various engineering disciplines for a week
- Researched challenges and solutions in 3D printing in additive manufacturing
- Prepared a presentation and technical bid for our idea, presented to peers and staff, and took spontaneous open-ended questions and objections

Chess Piece Classifier NOV 2024–DEC 2024

- Designed and Implemented a Machine Learning Algorithm (classifier)
- Used k-Nearest Neighbour classifier
- Reduced Dimensionality using Principal Component Analysis (PCA) and Linear Discriminant Analysis (LDA)
- Transformed images into feature vectors and implemented filters to enhance performance

LifeOS NOV 2023

- Participated in HackSheffield8 (hackathon)
- Collaborated in a team of 3 under high pressure (26 hours)
- Used Next.js with Typescript, OAuth, tRPC, ESLint, Prisma, TailwindCSS and PostgreSQL
- Awarded the "Best Use of AI"

Trains of Sheffield - Electronic Point of Sale System OCT 2024–DEC 2024

- Collaborated with 3 other students to capture requirements, design and implement a system in Java (Java Swing, Java Spring, MVC Architecture)
- Used UML diagrams to define requirements and implemented its database in MySQL
- Produced a written report of the whole project - including requirements, justifications, testing and teamwork

References upon request