

Chaithanya Virupaksha

Graduate Software Engineer | Java • Python • REST APIs

Newcastle upon Tyne, UK | Open to UK relocation | +44 7799 042262 | chaithanya6699@gmail.com

GitHub: github.com/chai6699 | Portfolio: chai6699.github.io | LinkedIn: linkedin.com/in/chaithanya-virupaksha-6b1675295

PROFILE

MSc Advanced Computer Science candidate at Newcastle University (award expected December 2026) with client-facing Python engineering experience and Agile web-development experience. Built React and Keycloak functionality for a Spring Boot microservices project and developed reproducible, automated-tested Python research software. Seeking graduate or junior software engineering roles involving application development, teamwork and clear communication with stakeholders.

TECHNICAL SKILLS

Programming: Java 21, Python, JavaScript, SQL, C++, C
Back-end & APIs: Spring Boot 3, REST, OpenAPI/Swagger, JPA/Hibernate, Quarkus, Flask
Web & databases: React 19, HTML/SCSS, PostgreSQL, MySQL
Engineering practices: Unit testing, Git, GitHub Actions, Agile delivery, Docker, Azure AKS, Kubernetes
Security & ML: OAuth2/JWT, Keycloak, RBAC, secure SDLC, PyTorch, scikit-learn

EDUCATION

MSc Advanced Computer Science | Newcastle University

2025-2026 | Dissertation submitted September 2026 | Award expected December 2026
Relevant modules: Advanced Programming in Java, Enterprise Software and Services, Cloud Computing, Secure Software Development.

BEng Computer Science | Dr. Ambedkar Institute of Technology, Bengaluru

Graduated 2024 | CGPA 8.3/10

PROFESSIONAL EXPERIENCE

Machine Learning Engineer | Accurate Info Solution

Bengaluru, India | May 2024 - Aug 2025

- Delivered a client object-detection system for 20 object classes: built and labelled a custom dataset, trained models with TensorFlow and OpenCV, and reached 98% accuracy on a held-out test set.
- Owned client deliveries end to end: agreed requirements with clients, prepared data, trained and evaluated models, and handed over documented solutions.
- Communicated results to non-technical clients in plain language, linking each model metric to their business decision.
- Mentored and assessed ML interns: reviewed their work, gave feedback and helped them get up to speed on the team's Python workflows.

Full-Stack Development Intern | PACE Wisdom Solutions

Bengaluru, India | Sep 2023 - Mar 2024

- Worked with designers and backend engineers in two-week Agile sprints, joining planning and reviews to deliver responsive frontend features on schedule.
- Rebuilt reusable HTML, SCSS and Bootstrap interface components, improving Lighthouse performance scores by approximately 25%.

Machine Learning Intern (part-time) | Accurate Info Solution

Bengaluru, India | Sep 2022 - Dec 2023

- Built a stock-market analysis project in Python on a large company's share data, and supported senior engineers with smaller development and data tasks on client projects.

SELECTED SOFTWARE PROJECTS

Cloud-Native Bookstore Platform

Newcastle University | 2025-2026 | Six-person team | React 19, Spring Boot 3, Keycloak, Azure AKS

- Developed React catalogue, product detail, cart and checkout features integrated with a Spring Boot microservices backend.
- Implemented JWT claim handling, Keycloak token refresh and role-based route guards to protect administrator actions.
- Improved perceived responsiveness with optimistic cart updates and API re-fetch on failure; collaborated with teammates on integration and system architecture.

Federated Learning under Lossy Wireless Networks

MSc dissertation | Newcastle University | 2026 | Python, PyTorch, NumPy

- Developed a modular FedAvg simulator with per-device and per-round measurements of packet loss, client selection, bandwidth and gradient compression.
- Implemented deterministic experiment controls and automated tests; identified and corrected eight defects, documenting methodology changes for reproducibility.

ADDITIONAL EXPERIENCE

Gelato Artist (part-time) | Amorino

Newcastle upon Tyne, UK | Nov 2025 - Present

- Advise and serve customers every shift in a busy team, explaining products clearly, alongside full-time MSc study.

LEADERSHIP & ADDITIONAL INFORMATION

Helped organise Kalarava 2024, coordinating volunteers and event logistics.
Certification: Python 3 Programming (University of Michigan).