Aswath Ganapathi Arumugam

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Education

University of Europe for Applied Sciences	*Mar 2024 – Mar 2025*

Masters in Software Engineering, Berlin, Germany -Overall: 86%

Experience

Working Student – Full Stack Developer & ML Support — *Potsdam, Germany*
ATB Leibniz Institute — *Feb 2025 – Present*

- Independently developed and maintained a complete Mobile application used within the AMRI Afrika project, handling both frontend (Flutter) and backend (Flask) architecture.
- Designed reusable REST APIs and database schemas for modular scalability, reducing future development workload by 40%.
- Collaborated with the project lead on data preprocessing and model integration tasks in Python for AI-driven components.
- Integrated authentication, dashboard visualizations, and user interaction flows, enhancing app usability for non-technical stakeholders.
- Actively participated in technical discussions, code reviews, and documentation efforts to align with project MEDICOW EU deliverable standards.

Freelance Developer – Academic Tools & Project Support — *Remote from India*
University of Europe — *Mar 2024 – Feb 2025*

- Designed and deployed admin tools and backend services using ASP.NET Core, reducing reporting time for academic teams by 40%.
- Led documentation and DevOps integration, streamlining version control and automated builds across two development environments.
- Facilitated user feedback cycles and functional walkthroughs with faculty stakeholders.
- Collaborated remotely on research proposal drafts and project timeline alignment using Notion and Trello.

Technical Project Coordinator – .NET & ML Applications — *Ahmedabad, India*
Avasoft / Albiorix Technology — *Mar 2021 – Jul 2023*

- Managed development timelines and stakeholder alignment for two client-facing ML-powered platforms focused on remote diagnostics.
- Developed APIs in .NET Core and integrated predictive models, cutting customer onboarding time by 35%.
- Created sprint plans and status reports for international teams, improving delivery confidence and reducing rework.
- Delivered interactive training and handover documentation for system deployment and usage.

Skills and Technologies

Project & Research Skills: Stakeholder Engagement, Co-Creation Methods, Social Network Analysis, Scientific Writing, Event Planning, Project Coordination,

Programming: C#, Python, SQL, JavaScript, TypeScript

Frameworks and Methodologies: .NET Core 8, ASP.NET Core, Xamarin, MAUI, MVC, MVVM, REST APIs, Agile Practices, Technical Documentation

Databases: SQL Server, PostgreSQL – schema design, stored procedures, query optimization

DevOps & Version Control: Git, Azure DevOps, GitHub Actions, CI/CD pipelines

Dissemination & Collaboration Tools: MS Office 365, Trello, Miro, Notion, Zoom, Jira, Canva, Overleaf, LaTeX, Confluence

Other Tools: Visual Studio, VS Code, Postman, Docker, Figma, Typo3, SharePoint, Zotero

Languages

English (C1), German (A2), Tamil (native)

Projects

AR MRI Brain Visualization (Master's Thesis)   *2025*
- Designed Unity app with integrated AI for MRI scan analysis.
- Used OpenAI API for voice interaction and diagnostic insight generation.