DENGYANG ZHOU

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SUMMARY

Master's student in Software Systems Engineering (GPA 1.6) at RWTH Aachen with hands-on experience in microservice-based application development, LLM deployment on HPC infrastructure, and CI/CD automation. Skilled in Python, Java, C and connecting local–remote LLM environments via gateway design. Passionate about software development, scalable intelligent systems, cloud platforms, and LLM engineering.

TECHNICAL SKILLS

- **Languages**: Python, Java, JavaScript/TypeScript, C/C++, SQL
- **Frameworks & Tools**: Node.js, Next.js, Electron, Git, GitLab CI/CD, Docker, MCP
- **LLM & Distributed Computing**: Ollama, HPC environment, ngrok tunneling, Remote–Local LLM routing
- **Databases**: relational database, noSQL
- **Other**: project management, Agile development, unit testing, data processing

PROJECT EXPERIENCE

Virtual Personal Assistant — RWTH Aachen Lab

- Tech: Python, Node.js, Electron, Next.js, GitLab CI/CD, Docker, MCP, Ollama, HPC
- Deployed LLM models to RWTH HPC using Ollama with secure remote access through ngrok tunneling.
- Built full communication workflow: Electron ➜ API Gateway ➜ MCP servers ➜ HPC-hosted LLMs.
- Designed and maintained GitLab CI/CD pipeline, improved reliability of releases.
- Implemented MCP server modules for RWTH services, supporting live mensa menu + gym usage inquiries.
Github: https://github.com/dengyang-zhou/VirtualPersonalAssistant

Airport Management System — QMUL Lab

- Developed airport resource scheduling and booking service following Agile/Scrum.
- Created minimal UI and maintained sprint planning + retrospectives + docs.
Github: https://github.com/dengyang-zhou/SoftwareEngineer-Airline

DNS Relay System — QMUL Lab

- Implemented local DNS relay with cached domain–IP mapping to reduce query latency.
- Handled multiple concurrent requests with multithreaded socket programming in C.
GitHub: https://github.com/Aaaazdy/DNS_relay_project

EDUCATION

RWTH Aachen University
Master of Science, Software Systems Engineering   Oct 2023 – Present
Grade: 1.6 (German grade)

Queen Mary University of London
Bachelor of Science, Internet of Things   Sep. 2019 – Jun. 2023
Grade: First Class

Beijing University of Posts and Telecommunications   Sep. 2019 – Jun. 2023
(Bachelor of Science, Internet of Things
(joint Program)

ADDITIONAL INFORMATION

- **Languages:** English (C1)
- **Certifications:** Huawei Cloud Student Developers – Campus Administrator
- **Awards/Activities:** BUPT Scholarship (2019–2020), BUPT Scholarship (2021–2022)