Marcus Berggren

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Summary — I am a passionate programmer who discovered my calling while optimizing logistics workflows, now pursuing Software Engineering & Management studies while being a father of two. I study **Software Engineering** at the joint department of Computer Science and Engineering at **Chalmers and Gothenburg University**.

Skills

Languages	Python, Java, TypeScript, C, Bash/Shell, CSS & HTML	**Tools**	Pandas, Numpy, Jupyter Notebook, Matplotlib, Node.js, Vue.js, Express, NestJS, MongoDB, Postman, Shell scripting, Git (GitHub/GitLab), SQL, Docker, Arduino, Proxmox, Nix
Testing	Postman, Pytest, Jest, Junit, K6		

Experience

Scandinavian Shipping & Logistics　　　　　　　　　　　　　　　　**Jan 2024 – Present**
Agent for X-Press Feeder Line　　　　　　　　　　　　　　　　　　*Part-time*

– Maintaining Python code, shell scripts and VBA code utilized by the operations team

Bollore Logistics Sweden (ex. Global Freight Solutions)　　　　　　**Aug 2018 – Jan 2024**
IT-manager　　　　　　　　　　　　　　　　　　　　　　　　　*2022-2024*

– Coordinated with global IT teams to align local infrastructure with company-wide standards
– Maintained migration of local servers to SharePoint and Azure cloud servers
– Maintained and developed internal applications and scripts in Python and JavaScript

Agent for X-Press Feeder Line　　　　　　　　　　　　　　　　　　*2018-2022*

– Worked as husbandry agent for X-Press Feeder's, handling container ships and its cargo to and from Sweden, Finland and Denmark
– Optimized ship routes, planning operational schedules and cargo on container ships sizing 300-1200 TEUs
– Provided customs work, manifestations, contacts and permits with Swedish agencies and container terminals
– Handled Dispursement Accounting (DA) and PDAs for port calls in Sweden and Finland
– Developed workflows and Python scripts to automate and optimize logistics processes

Education

Software Engineering and Management　　　　　　　　　　　　　　**2023 - 2026**
Bachelor of Applied Science - BASc, Gothenburg University & Chalmers, Sweden

　Description

– Software Engineering and Management at the department of Computer Science and Engineering.

International Freight Forwarding　　　　　　　　　　　　　　　　**2016 - 2018**
Yrgo, Higher Vocational Education

Projects

WeFix　　　　　　　　　　　　　　　　　　　　　　　**Nov 2024 - Jan 2025**
A full-stack student project for booking and handling dental appointments in a disctributed system
Role: Project Manager & Lead Backend Developer

– Developed a real-time dental appointment system using Vue.js and TypeScript for frontend, with comprehensive Jest test coverage for critical components and user flows
– Architected and implemented NestJS backend with REST API and MQTT protocol, utilizing Postman for API testing and Jest for unit testing of services
– Implemented high-availability architecture with redundant servers, load balancers, and MongoDB replication for fault tolerance
– Built secure user authentication using BankID integration, automated email notifications, and real-time updates via Server-Sent Events (SSE)
– Conducted performance testing using K6 for load testing and Grafana for monitoring and visualization
– Managed the project using Git for version control, Docker for containerization, Gitlab Pipeline for CI/CD and ensured code quality with ESLint and Prettier

CourseReviewr   **Sep 2024 - Oct 2024**
A full-stack student project for reviewing online courses
Role: Lead Backend Developer

– Engineered a course review platform using Vue.js and Express, implementing test-driven development with Jest for frontend and Postman for integration testing
– Implemented a recommendation system using MongoDB aggregation pipeline
– Created a responsive UI with dynamic course lists and filtering capabilities
– Implemented user authentication and AWS S3 integration for image uploads, ensuring data security and privacy