

# 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

**Testing** Postman, Pytest, Jest, Junit, K6

**Tools** Pandas, Numpy, Jupyter Notebook, Matplotlib, Node.js, Vue.js, Express, NestJS, MongoDB, Postman, Shell scripting, Git (GitHub/GitLab), SQL, Docker, Arduino, Proxmox, Nix

## Experience

### Scandinavian Shipping & Logistics

*Agent for X-Press Feeder Line*

**Jan 2024 – Present**

*Part-time*

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

### Bollore Logistics Sweden (ex. Global Freight Solutions)

*IT-manager*

**Aug 2018 – Jan 2024**

*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 Disbursement 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

*Bachelor of Applied Science - BASc, Gothenburg University & Chalmers, Sweden*

**2023 - 2026**

#### Description

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

### International Freight Forwarding

*Yrgo, Higher Vocational Education*

**2016 - 2018**

## Projects

### WeFix

*A full-stack student project for booking and handling dental appointments in a distributed system*

**Nov 2024 - Jan 2025**

*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