MARTON BOCSI

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EDUCATION

University of Wisconsin - Madison College of Engineering　　　　　　　**September 2021 - May 2025**
Computer Engineering: ML and DS Option B.S. — Computer Science B.S. — Physics Cert.　　　　*Madison, WI*
GPA — 3.83/4.0 (Deans honor list all semesters)

Norwegian University of Science and Technology (NTNU)　　　　　　　**August - December 2023**
Study abroad: Focus on computer science.　　　　*Trondheim, Norway*

PROJECTS

Genimix.dev | Startup | *Next.js, Cloudflare Workers, R2, D1, KV, Stripe, Clerk, OpenAI API, Gemini API*　　**April 2025 - Present**
- Developed an AI image generation platform for developers, combining model access, image storage, and CDN delivery through a unified API.
- Built a serverless stack using Next.js on Cloudflare Workers, with R2 for object storage, D1 for metadata, and KV for usage tracking.
- Integrated Clerk for authentication and Stripe for subscription management, supporting credit-based billing.

CareerBridge AI | Hackathon | *React, TypeScript, Python, Docker, PostgreSQL*　　　　**June - August 2024**
- Quarter-finalist in a 6-week hackathon, developing a job board and career guidance web platform.
- Implemented JWT token-based authentication from scratch and live refresh in Docker Compose for full-stack development.
- Created a Python microservice for document processing, translation, and recommendation tasks, allowing the app to serve a global audience.

EXPERIENCE

Orbit Spaceflight at NTNU　　　　　　　**August 2023 – December 2023**
Student Dev Ops Engineer　　　　*Trondheim, Norway*
- Contributed to the development and launch of CubeSats as part of a student-led organization that designs, builds, and operates spacecraft for low Earth orbit missions.
- Developed automated pipelines for GitLab repositories, enhancing testing efficiency and code quality for spaceflight.
- Implemented the AC-3 mechanical constraint satisfaction algorithm in Python to reduce problem-solving time and enhance design accuracy.
- Developed a Python interface for interacting with Valispace and Partsbox to synchronize PCBs designed in Altium 365.
- Established DevOps workflows and collaborated across mechanical, electrical, and software engineering teams.

Pierce Manufacturing　　　　　　　**May 2023 – August 2023**
Software Engineer Intern　　　　*Oshkosh, WI*
- Worked at a leading fire and emergency vehicle manufacturer, developing an electrical system simulator
- Designed and developed a test-suite for electrical modules found on emergency vehicles, improving product reliability and reducing firmware development time.
- Simulated mechanical responses to electrical inputs and system states using a standardized schema, enabling modular integration testing across all firetruck models.

Space Science and Engineering Center　　　　　　　**May 2022 – May 2023**
Student Programmer　　　　*Madison, WI*
- Developed Python scripts for ETL workflows and cronjob for ingesting realtime satellite data into SQL databases.
- Built website-based index of archived satellite data for scientists.

RELEVANT COURSEWORK

- Computer Networks
- Database Systems
- Operating Systems
- Computer Architecture
- Artificial Intelligence
- Machine Learning
- Algorithms
- User Interfaces

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Golang, Java, C#, SQL, HTML/CSS
DevOps & Tools: Git, Docker, CI/CD (GitHub Actions, Gitlab CI), Cloudflare (R2, D1, KV, Workers), AWS (S3, EC2, Lambda)
Frameworks & Platforms: React, .NET, Spring Boot, Express.js, Next.js, Linux, MacOS, Windows