



# Maciej Dąbek

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## SUMMARY

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Versatile software engineer with a strong background in developing complex systems for robotics, now transitioning into web development. After a year spent travelling and broadening my global perspective, I spent the last 5 months mastering modern web technologies, with a focus on React. I bring a unique combination of technical expertise, problem-solving abilities, and a fresh perspective on both front-end and back-end development. Ready to apply the same dedication and mindset that drove my success in previous roles to tackle web development challenges.

## SKILLS

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Languages (JavaScript, Typescript, Python, C++)  
Front-end Technologies (HTML, CSS, React, Next.js)  
Back-end Technologies (Node.js, Flask)  
Version-control (Git, GitHub, Bitbucket)  
Operating systems (Linux, macOS, Bash)

Creativity | Critical-thinking  
Problem-solving | Decision-making  
Teamwork | Collaboration  
Project management | Organization  
Confidence | Humour

## PROFESSIONAL EXPERIENCE

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### SENIOR SOFTWARE ENGINEER at Versabox

03.2020 – 11.2022

- Led the team in executing the company's largest implementation to date, successfully managing a deployment 3 times the scale of previous projects, setting new benchmarks for capacity and performance.
- As lead developer, established the long-term vision and detailed planning steps for the entire system, setting a 5-year roadmap to guide continuous improvement and strategic innovation.
- Led a dedicated team in the development of an advanced fleet traffic control system, enabling a 5x increase in the number of collaborating robots and significantly enhancing operational scalability and coordination.
- Created an advanced task management system that dynamically allocates tasks across robotic fleets, featuring robust mechanisms to handle network disconnections and maintain consistent workflow.

### SOFTWARE ENGINEER at Versabox

09.2017 – 03.2020

- Created a pioneering fleet traffic control system that seamlessly managed up to 10 robots in shared spaces, combining collision avoidance algorithms with right-of-way rules for optimal efficiency.
- Engineered a bidirectional communication system for robots and fleet management using MQTT, ensuring reliable, constant data exchange while eliminating outdated and invalid data, even during network disruptions.
- Engineered a versatile API architecture that empowers the control of both single robots and entire fleets, facilitating the creation of web applications and external system integrations for streamlined management.
- Developed a rapid upgrade tool that enabled one-click software updates across entire robot fleets, reducing the process from hours to minutes, enhancing overall system maintainability.

### JUNIOR SOFTWARE ENGINEER at Versabox

08.2015 – 09.2017

- Developed an advanced positioning algorithm that increased robot precision by 400%, optimizing navigation and operational performance in complex environments.
- Engineered a seamless roaming solution for robots transitioning between access points, reducing disconnection time by 80%, ensuring uninterrupted operation.
- Developed an intuitive command-line tool that consolidated all robot management functions into a single user-friendly interface, simplifying complex operations for users.

## EDUCATION

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### WARSAW UNIVERSITY OF TECHNOLOGY

- MASTER OF SCIENCE, COMPUTER SCIENCE 2016 – 2018
- ENGINEER, ROBOTICS 2012 – 2016