

BARTOSZ GLOWACKI

Software Engineer

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Python • Java • C++ • Django • Flask • AI/ML • TensorFlow • HTML/CSS • MERN • firebase • git • SQL

About me

I'm a software developer who thrives on strategic thinking, honed through years of playing competitive chess. Leading my high school chess club taught me problem-solving, focus, and strategy, which I apply to coding daily.

Education

Bachelor in Computer Science with Management

King's College London
2023 - 2026

Academic

- Developed a program in Assembly for an Arduino-breadboard setup, **100%** mark.
- Led a **team of 6** to create a successful marketing strategy for real client, awarded with **A mark**
- Programming Practice - created a JavaFX app displaying real data. Collaborated in a **team of 4**. Implemented an advanced version of a Game of Life.
- Data Structures - coded and used **8 data structures** in Java and implemented **5 sorting algorithms** for performance and efficiency comparison.

Courses

- Machine Learning A-Z: AI, Python [2024] - Udemy

Languages

- English - C1
- Polish - C2

Experience

Back-end Software Developer: King's Labs | London

nov 2024 - now

NestJS • JavaScript • REST API • git • Scrum • MySQL • AWS

- With a team of five, led the back-end development for an AI educational platform, that matches students with tutors. Leveraged Scrum methodology.
- Designed and executed a notification system that achieves **99.9% accuracy** in delivery for smooth communication.
- Optimized the streaming of large data objects to **decrease load times by 40%** and increase **scalability by 50%**.
- Introduced web sockets to provide real-time updates, significantly increasing user interaction.

Software Engineer for AI training: Outlier

oct 2024 - now

Python • Reinforcement Learning • Code review

- Improved the AI models by reviewing and enhancing the Python code snippets and chatbot applications for better performance and accuracy.
- Created efficient solutions, robust test cases, and clear instructional feedback while working remotely with a team of experts to further improve generative AI capabilities.

Software Engineering Internship: Headstarter

jun - aug 2024

Flask • React • Firebase • AWS • git • Vercel

- Collaborated with a team of four to develop and host an AI-powered web app, orbitfind.co (ranked **#1** on Google), allowing users to create and join events.
- Created a robust backend API using Flask, deployed with AWS tools for high availability and scalability. Integrated Firebase for secure authentication and efficient database management.
- Achieved **130+ waitlist** sign-ups and garnered **1,000+ impressions** from a LinkedIn launch post, driving early user engagement.

Projects

AI-powered news chatbot

MERN • Next.js • Vercel • git • RAG • Llama API • News API

Developed an AI-driven chatbot using Next.js, hosted to Vercel and integrated with the News API to deliver real-time news articles. The chatbot employs the **LLaMA 3.1** model for intelligent analysis, ensuring users receive the most accurate, context-rich content. By connecting long-term knowledge with the latest updates, the app provides a unique blend of relevant and timely news.

Airline management app

Python • Django • MySQL • HTML/CSS • bootstrap • AWS RDS

Produced and hosted a robust web application using the Python Django framework, implementing **Role-Based Access Control (RBAC)** with **5 distinct user roles**. The front-end interface was built using HTML/CSS and styled with Bootstrap for a clean, responsive design. The app integrates a MySQL database with **16 relationships**, supporting **11 key features** including ticket purchasing, flight creation, and worker task assignments, demonstrating strong proficiency in both back-end development and database architecture.

Food image classification with CNN

TensorFlow • CNN • transfer learning • data augmentation

Implemented a deep learning CNN for image classification, predicting 1 of 10 different food categories with **92% accuracy**. Used EfficientNetB0 with feature extraction and fine-tuning, and integrated data augmentation for improved generalization. Constructed and trained the model using TensorFlow, demonstrating expertise in modern machine learning frameworks.