

Aleksandr Kross

Profile

Software developer and first-year Master's student at CTU in Prague. Focused on frontend, backend, and full-stack development.

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Email

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LinkedIn

linkedin.com/in/aleksandrkross

Github

github.com/mathewtroy

Education

Czech Technical University in Prague

Master's Degree, Faculty of Electrical Engineering

Study Program: Open Informatics

Prague, The Czech Republic

June 2025 – Present

Czech Technical University in Prague

Bachelor's Degree, Faculty of Electrical Engineering

Study Program: Software Engineering and Technology

Prague, The Czech Republic

September 2021 – June 2025

Work experience

Dům Dobra

Figma and Web Design Instructor (Part-time)

Prague, Czechia

Jul 2024 – Apr 2025

- Introduced students to Figma design workflows, improving UI/UX fundamentals and practical prototyping skills.
- Conducted sessions on interface consistency and usability, encouraging design thinking.

KCT Data

SAP Developer (Full-time)

Prague, Czechia

Jul 2024 – Aug 2024

- Developed SAP ABAP components to automate business data processing.
- Collaborated with senior developers to understand enterprise-level software integration.

Projects

- **Voicer AI** — *TypeScript, Vite, FastAPI, Python, Deepgram STT, Groq LLM, gTTS*
Developed a real-time AI voice assistant proof of concept. The app listens, transcribes speech, generates responses using LLM, and speaks them back. Integrated Deepgram (speech-to-text), Groq LLaMA 3.1 (chat generation), and gTTS (text-to-speech) APIs.
- **Candly Social App** — *JavaScript, React, Firebase, Cloud Firestore, Cloudinary*
Developed a social web app with features for creating posts, liking content, searching for users, and admin moderation. The app was deployed on Firebase hosting.
- **Todo-List App** — *React, Firebase, Cloud Firestore, TailwindCSS, GitHub Actions (CI/CD)*
Developed a task management web application with user authentication, task creation, editing, and filtering. Implemented real-time synchronization with Firestore and automated deployment to Firebase Hosting via GitHub Actions.
- **Personal Portfolio** — *TypeScript, Next.js, ESLint*
Developed a responsive personal portfolio website with dark/light themes and English/Russian localization.

- **React Application Whiteboard** — *JavaScript, React, HTML, CSS*
Developed an interactive drawing board with undo/redo, color selection, and brush sizes.
 - **Vulnerability Detector** — *Python, PHP, HTML5, CSS3, JavaScript, MySQL*
Developed a bachelor's thesis project focused on detecting vulnerabilities in PHP web applications. Created a demo vulnerable web app and an automated scanner to identify vulnerabilities.
 - **Finance Mobile App** — *Kotlin, Jetpack Compose*
Developed a mobile app for personal finance management, focusing on clean UI and usability.
 - **Website with Travel Packages** — *HTML, CSS, JavaScript, MySQL, PHP*
Developed a full-stack travel booking site. Included secure login, XSS protection, password hashing, and responsive UI.
 - **EShop Testing** — *Java, Selenium, ACTS, PCTgen*
Developed automated tests to verify functional workflows of an e-commerce platform.
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Technical skills

Languages: Java (Spring), JavaScript (React, TypeScript), Kotlin, PHP, HTML, CSS

Tools & Technologies: Git, Docker, Linux, MySQL, PostgreSQL, Selenium, Figma, Firebase (Auth, Firestore, Hosting), GitHub Actions (CI/CD)

Soft skills

Communication, teamwork, problem-solving, adaptability, and continuous learning

Language skills

English – Professional working proficiency (B2)

Czech – Professional working proficiency (B2)

Russian – Native proficiency

German – Beginner (A1)

Volunteering

IT Support Volunteer — Silicon Hill, CTU Dormitory, Prague

Assisted new residents in connecting to the Silicon Hill network and troubleshooting internet issues.

Event Assistant – VědaFest 2022 & 2024 — CTU, Prague

Helped organize a large-scale science outreach event for children, collaborating with a diverse international team.