

MOSHE YAKUBOV

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EXPERIENCE

Pawza - Dating App for Pet Enthusiasts [Link]

Collaborative *team project* mentored by *Microsoft engineers*

Mar 2024 - Jul 2024

- Designed and implemented a full-stack web application using the **MERN stack (MongoDB, Express.js, React.js, Node.js)**, showcasing strong proficiency in scalable, secure web development.
- Developed a responsive and intuitive user interface using React.js, leveraging **Hooks** and **React Router** for dynamic client-side navigation and state management.
- Built secure **RESTful APIs** with Express and Node.js, enabling robust client-server communication and efficient data handling.
- Implemented user **authentication** and **authorization** with **JWT** (JSON Web Tokens) and **bcrypt**, ensuring secure access control and data privacy.
- Modeled complex user, match, and messaging data structures using **Mongoose schemas** on MongoDB, enabling flexible, high-performance querying.
- Integrated **chat functionality**, supporting seamless communication between matched users.
- Followed best practices in clean code architecture, security, and performance—advised and **reviewed in collaboration with Microsoft engineers**.
- Gained hands-on experience working in a collaborative, **team-based** environment, using **Git** and **GitHub** for version control, code reviews, and agile development workflows.
- Deployed the application to cloud platforms such as AWS, demonstrating skills in deployment and production readiness.
- Utilized **Material UI** to design a responsive, consistent, and visually appealing front-end interface, leveraging pre-built components and custom theming to accelerate UI development and ensure a modern user experience.

EDUCATION

The Open University of Israel

BSc Computer Science *GPA: 88*

2022 -

SKILLS

Programming languages:	Java, JavaScript, Python, Go
Technologies:	Docker, MongoDB, Express.JS, Node.JS, React.JS, Django
OS:	Linux

PROJECTS

Wizzle: AI-Powered English Vocabulary Learning Platform [Link]

Built a full-stack web application that turns any English PDF into an interactive digital book. Users can click on words to get instant Hebrew translations using the **Azure AI Translator API** and save them to a personal vocabulary list. Saved words are displayed as interactive cards that flip to reveal translations. Implemented a custom learning system with spaced repetition logic, including memory tracking and scheduled reviews. The backend, developed with **Python** and **Django** using **Django Rest Framework** and **JWT authentication**, provides **secure APIs** for user management, word tracking, and translation, while the frontend in **JavaScript** and **React** delivers a smooth, responsive user experience.

Encrypted File Transfer System [Link]

Client-server application for secure file transmission over a custom **TCP** based binary protocol. Client built in **Java** with support for **RSA** key management, **AES encryption** and configurable identity via .info files. Server implemented in **Python** with **multi-threading**, **AES decryption** and secure public key exchange. Enabled reliable file upload with **CRC** based integrity checks, checksum validation, and automatic retransmission logic (up to 3 attempts). Supported persistent user authentication and management of file metadata.