Jennet Zamanova

Cambridge, MA · +18572851043 · zamanova@mit.edu · linkedin.com/in/jennet-zamanova · github.com/jennet-zamanova

Education

Massachusetts Institute of Technology (MIT)   **Cambridge, MA**
- Candidate for Bachelors of Science in Computer Science and Engineering, GPA: 4.8/5.0   June 2026
- Coursework: Software Design, Intro to Machine Learning, Software Construction, ML and Data Science in Politics, Intro to Deep Learning, PCB Design, Design and Analysis of Algorithms, Game Development

Experience

Vortexa Ltd (Energy Flows Data and Analytics Tool)   **London, UK**
Software Engineering Intern   Jun 2024-Aug 2024
- Implemented a data pipeline to process and ingest ~20K records from PDFs using LLMs, enhancing external data coverage
- Designed an object-oriented ETL pipeline with modular components, improving flexibility and scalability
- Deployed the pipeline using Airflow, Docker, and CircleCI with 80% test coverage, ensuring a smooth transition to production

MIT App Inventor (App Programming Tool)   **Cambridge, MA**
Undergraduate Researcher   Jan 2023-Present
- Developed a system to parse and provide descriptive error messages, improving debugging efficiency for developers and users and the overall quality of the system through a feedback system to ChatGPT
- Built a dynamic style-switching feature for App Inventor, allowing users to customize their experience
- Implemented light/dark mode per Material Design standards, followed by user testing to optimize experience.
- Designed and implemented a new grammar in the Aptly to fully enable automatic conversion of App Inventor apps into Aptly code, supporting future research initiatives

MIT EECS   **Cambridge, MA**
Lab Assistant - Introduction to Machine Learning   Sept 2024-Present
- Assist students with lab assignments, checking off completed work while explaining underlying concepts
- Provide one-on-one support during office hours, helping students understand course material and complete homework assignments
- Foster deeper comprehension of machine learning principles through guidance and constructive feedback

Projects

Software Design - Craftfolio (https://craft-folio.vercel.app/)   **Cambridge, MA**
Full-Stack Developer & Project Lead   Oct 2024-Dec 2024
- Conducted user interviews, and designed iterative wireframes, delivering a user-friendly interface
- Built scalable RESTful APIs for the platform, applying principles from The Essence of Software to ensure clarity and modularity, resulting in a maintainable backend deployed on Vercel.
- Coordinated a 4-person team using agile methodologies, managed deliverables, and incorporated user testing feedback, delivering a polished platform that met project objectives on schedule.

Data Science and Machine Learning in Politics   **Cambridge, MA**
Data Analyst and ML Engineer   Oct 2023-Dec 2023
- Collected and processed referendum voting data for different states, drawing connections with different datasets and analyzing data according to proposed research questions
- Developed and applied ML algorithms to uncover patterns in district-level census data
- Managed the project's GitHub page, simplifying collaboration and contribution across team members

Code for Good   **Cambridge, MA**
Data Analyst and Software Engineer   Nov 2023-May 2024
- Cleaned and processed demographic data for a non-profit organization, creating visual maps for analysis
- Led the development of a public website for easy access to demographic data on Boston neighborhoods
- Facilitated collaboration by explaining technical project components to the team, enabling effective contribution

Skills & Interests

Software: Unity, SQL, AWS, MongoDB/Express.js/React/Node.js (MERN), Git, LaTeX, QGIS, Microsoft Office, Unity
Programming Languages: Python, Java, Javascript, Typescript, R, Julia
Languages: English, Turkmen (fluent), Turkish (read and speak), Uzbek (speak)
Interests: Chess, Crafts/EE projects, 3D printing, Math