Flora Dedvukaj

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Education

- **Fordham University** — New York, NY, USA
  B.S. in Computer Science and Mathematics — *Aug 2021 - May 2025*

Skills Summary

- **Languages**: Java, C++, Python, HTML/CSS, C, SQL, Ruby, Swift/iOS, TypeScript
- **Tools/Libraries**: Microsoft Excel, Tableau, TensorFlow, numPy, SciPy, Keras, PyTorch, Redux, Linux, Matlab, React.js, Node.js, MongoDB, Postman, Git, BeautifulSoup, AWS

Experience

- **Burt Intelligence.** — New York, NY, USA
  Data Science Intern — *Jun 2024 - Present*
  - Created scalable chatbot architecture using AWS services such as Bedrock, SageMaker, and S3
  - Implemented RAG (Retrieval-Augmented Generation) using Kendra and LanceDB for document retrieval
  - Developed real-time Lambda functions for low latency
  - Set up API Gateway for RESTful API Interaction

- **Fordham University** — New York, NY, USA
  Research Assistant - Prof. Han-Bom Moon — *Jun 2023 - Aug 2023*
  - https://arxiv.org/abs/2310.09293v1
  - Authored and presented research findings on space-filling curves at various conferences such as JMM 2024
  - Constructed specific examples of algebraic space-filling curves in three-dimensional projective space, with a focus on those with the smallest possible degree
  - Developed new geometrical constructs in three-dimensional projective spaces using Macaulay2 and Python, including NumPy and SciPy libraries, to perform advanced algebraic computations

- **Fordham University** — New York, NY, USA
  Artificial Intelligence and Machine Learning Fellowship — *Jan 2023 - May 2023*
  - Conducted extensive research on the latest developments and best practices in Artificial Intelligence and Machine Learning.
  - Reviewed academic literature and attended conferences and seminars
  - Analyzed and tested simple machine learning models, and conducted experiments and tests to evaluate the effectiveness and accuracy of the algorithms and models
  - Analyzed and interpreted data using TensorFlow and Keras to identify patterns and trends in the results

Projects

- **Full-Stack Web Development** — Restaurant Business
  New York, New York — *Dec 2023-Present*
  - Utilized HTML/CSS (TailwindCSS) to develop a visually appealing and interactive full-stack website for a small business
  - Implemented React.js and AOS CSS library for a dynamic and interactive experience
  - Implemented MongoDB for hosting e-commerce site and API tested using Postman

- **Prompt-Based Playlist Generator** — Google AI Hackathon
  Remote — *Apr 2024 - May 2024*
  - Used Google's Gemini API for real-time, text-based music playlist generation, integrating deep learning and NLP
  - Developed the front end using ReactJS/Redux for state management ensuring real-time user interaction
  - Fine-tuned TensorFlow and PyTorch models employing transfer learning and gradient descent optimization

Involvement, Honors And Awards

- Sigma Xi Research Society Candidate
- Mathematics Club Treasurer
- Member of Fordham Computer Science Society