George Forgey

Boston, MA — Phone: 225-315-2484 — Email: forgey.g@northeastern.edu
LinkedIn: linkedin.com/in/george-forgey — GitHub: github.com/George-Forgey
Co-op availability: Jan–Jun 2026

Education

Northeastern University Boston, MA
Candidate for Bachelor of Science *September 2024 – May 2027*

- **Major:** Computer Science and Mathematics; **GPA:** 4.0/4.0
- **Related Courses:** Fundamentals of CS I/II; Object-Oriented Design; Data Structures and Algorithms; Logic and Computation; Calculus III; Linear Algebra; Differential Equations; Group Theory; Statistics

Computer Knowledge

Languages: Python, Java, JavaScript, HTML/CSS, Racket, MATLAB, JSON

Frameworks: React, Node.js, Flask, FastAPI

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, Eclipse, IntelliJ

Cloud: AWS, Google Cloud Platform, Vercel

Libraries: NumPy, Pandas, Scikit-Learn, SciPy, SymPy, OpenCV, PyTorch, Tkinter, Streamlit

Certifications: AWS Certified Cloud Practitioner (CCP)

Work Experience

Northeastern University Boston, MA
Calculus III Teaching Assistant *September 2025 – Present*

- Grade 100^+ quizzes each week, as well as tests and exams, for multivariable calculus.
- Create calibrated rubrics to ensure reliable, consistent scoring across sections.
- Return feedback quickly and maintain organized grade records to support instructors and TAs.

Projects

PFT Interpreter — *Python, OpenCV, PaddleOCR, JSON, Tkinter* September 2024 – Present

- Developed novel software for automated pulmonary function test interpretation in conjunction with the pulmonology department at Beth Israel to streamline the workflow of the medical doctors
- Implemented template matching for table detection, with cell-segmentation and validation checks to minimize OCR read errors.
- Achieved 99% OCR and diagnosis accuracy on labeled tables via validation.

Energy Consumption Forecast — *Python, Prophet, Pandas, Matplotlib* July 2024 – August 2024

- Created a forecasting pipeline with Prophet, modeling daily/weekly/yearly seasonality and holiday effects.
- Optimized model hyperparameters using a grid search approach to achieve an accuracy of 90.4% according to standard regression metrics (e.g., MAPE, RMSE).
- Automated data prep and visualization to easily generate forecast reports 9 months into the future.

Spotify Song Recommender — *Python, Streamlit, NumPy* May 2024 – June 2024

- Developed an interactive Streamlit app for instant, user-tailored song recommendations.
- Analyzed attributes such as energy, danceability, and tempo to rank candidates from a catalog of $30{,}000^+$ tracks.
- Leveraged the Spotify Web API and added interactive data visualizations for transparency and tuning.

Interests

Soccer; Cooking; Chess; Violin