# Tilak Patel

315-720-8202 | tilakny@gmail.com | LinkedIn | GitHub | tilakpatell.com | US Citizen

#### **EDUCATION**

Northeastern University
Bachelor of Science
Boston, MA
Boston, MA

- Major: Computer Science (Al Concentration)
- Minors: Computer Engineering & Robotics
- Relevant Coursework: Object-Oriented Design, Graduate Computer Systems, Algorithms & Data, Engineering LLM-Integrated Systems, User Experience Design, Fundamnetals of Computer Science II & I, Data Research Practicum

## **TECHNICAL SKILLS**

- Languages: Python, Java, JavaScript, SQL
- Web/Frameworks: React, Flask, FastAPI, Material UI, Axios, Tailwind CSS, Pygame, Conda
- Data/ML: PyTorch, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Generative AI, LLMs, ChatGPT
- Tools/Other: AWS, Git, Linux, Bash, Jupyter Notebook, Gradle, JUnit, PyTest, Postman, Eclipse, Shell Scripting, GitHub, Azure, VSCode, Unix, Windows, Google Colab

## **EXPERIENCE**

Generative Al Intern
Empowerreg Al
Seattle, WA

- Engineered production ready visualizations for the Risk Annotation Matrix Product, enhancing data interpretation
- Integrated and parsed Generative AI model data with Pandas, Seaborn, and React.js
- · Created a Risk Assesment Matrix graph with Material UI to facilitate real-time data analysis for clients
- Processed thousands of lines of JSON medical device data and utilized Python's FastAPI to efficiently transmit it

#### **Undergraduate Research Assistant**

Mon(IoT)r Lab, Northeastern University

Jan. 2024 - Present

Boston, MA

- Automated data collection for privacy research with Python scripts
- Improved data gathering efficiency via RESTful API integration
- Increased processing speed with multithreading for requests
- Led voice assistant experiments (Google Assistant, Amazon Alexa), focusing on privacy and user interaction analysis

# Software Engineer Intern

GreenTree Capital and Asset Management

June 2024 - July 2024

Jan. 2024 - Present

Boston, MA

- Implemented AuthO, enhancing security and user access
- Optimized React.is applications for user engagement, contributing as a volunteer
- Ensured robust APIs with **Postman** documentation and testing
- · Collaborated with various interns to troubleshoot and build authentication for a React website

# **PROJECTS**

Personal Portfolio

# Co-OpSearcher Web App

Python, Flask, React, Vite, Selenium, ChatGPT API, Tailwind CSS, Framer Motion

- · Architecting full-stack app to automate internship search with Flask API and React.js frontend
- Implemented React with Vite and Tailwind CSS, boosting load times and engagement
- Integrated Selenium for web scraping and ChatGPT API for intelligent job matching
- · Enhanced UX with Framer Motion animations, improving interface interactivity

React, Vite, Framer Motion, Tailwind CSS, Git

July 2024

- · Developed responsive portfolio using React and Vite for optimal performance
- Implemented Framer Motion animations to create dynamic and engaging movement.
- Utilized Git for version control with branching and CI practices
- · Designed modern UI with Tailwind CSS, enhancing visual appeal and UX

# Floodit Game

June 2024

Java, Northeastern Tester Library

- Engineered Java-based FloodIt game with efficient board-handling algorithms
- Applied OOP principles for modular, scalable code structure