

# Tilak Patel

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## EDUCATION

### Northeastern University

Bachelor of Science

Sept. 2023 – May 2027

Boston, MA

- **Major:** Computer Science
- **Minors:** Computer Engineering & Robotics
- **Relevant Coursework:** Object-Oriented Design, User Experience Design, Algorithms & Data Structures

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL
- **Web & Frameworks:** React, Node.js, Flask, REST APIs
- **Data/ML & Cloud:** PyTorch, TensorFlow, NumPy, AWS, Git
- **Tools:** Linux, Bash, Postman, Jupyter

## EXPERIENCE

### Network and Software Engineer Intern

GreenTree Capital and Asset Management

June 2024 – Present

Seattle, WA

- Implemented Auth0, enhancing security and streamlining user access
- Optimized React.js applications, increasing user engagement by 20%
- Utilized Postman for API documentation and automated testing of endpoints
- Collaborated in fast-paced development, improving code quality through peer reviews
- Conducted cross-functional testing, enhancing application stability

### Undergraduate Research Assistant

Mon(IoT)r Lab, Northeastern University

Jan. 2024 – Present

Boston, MA

- Engineered Python scripts automating data collection for privacy research
- Implemented RESTful API integration, improving data gathering efficiency by 20%
- Developed robust audio file processing system using OS operations
- Designed rate limiting and error handling solutions for web scraping
- Utilized multithreading for concurrent API requests and file operations

### IT and PR Intern

BAPS Swaminarayan Akshardham

June 2023 – Sept. 2023

Robbinsville, NJ

- Developed Python scripts for operational reporting, reducing process times by 15%
- Optimized internal workflows using Microsoft 365 and Power Automate, decreasing administrative overhead by 20%
- Created centralized knowledge base, reducing inquiry response time by 50%
- Drove an increase in online engagement through social media strategy development

## PROJECTS

### Co-OpSearcher Web App

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

Jan. 2024 – Present

- Architecting full-stack app to automate internship search with Flask API and React frontend
- Implemented React with Vite and Tailwind CSS, boosting load times 30% and engagement 25%
- Integrated Selenium for web scraping and ChatGPT API for intelligent job matching
- Enhanced UX with Framer Motion animations, improving interface interactivity

### Personal Portfolio

React, Vite, Framer Motion, Tailwind CSS, Git

July 2024

- Developed responsive portfolio using React and Vite for optimal performance
- Implemented Framer Motion animations, increasing session duration by 40%
- Utilized Git for version control with branching and CI practices
- Designed modern UI with Tailwind CSS, enhancing visual appeal and UX

### FloodIt Game

Java, Northeastern Tester Library

June 2024

- Engineered Java-based FloodIt game with efficient board-handling algorithms
- Applied OOP principles for modular, scalable code structure
- Developed custom flood-fill algorithm, optimizing game state management