

BENJAMIN PETRILLO

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Availability: May – December 2025

EDUCATION

Northeastern University | Khoury College of Computer Sciences Boston, MA
Candidate for a Bachelor of Science in Computer Science – Software Concentration Expected May 2026
Honors: **GPA:** 3.65/4.00 | Dean's List
Coursework: Algorithms, Object-Oriented Design, Networks, Distributed Systems, Computer Systems, Logic & Computation

TECHNICAL SKILLS

Languages: Java, TypeScript/JavaScript, Go, Python, C++, Racket, HTML, CSS
Frameworks/Tools: React/React Native, Spring Boot, Next.js, FastAPI, Express, Docker, Terraform, BeautifulSoup, JUnit, Jest
Technologies: AWS, PostgreSQL, MySQL, MongoDB, Prisma, Supabase, Firebase, Git, JetBrains IDE, Postman

EXPERIENCE

Generate Product Development – Boston, MA

Software Technical Lead Dec 2024 – Present

- Lead a team of **6 engineers** in the development of a mobile app for a real client using **React Native** and **Golang**
- Review **150+ applications** and conduct **6 technical interviews** for potential engineers, ensuring thorough and fair evaluation

Software Engineer Aug 2024 – Dec 2024

- Engineer **20+ CRUD endpoints** for authentication, user profiles, and venue interactions for a nightlife discovery platform
- Utilize **react-navigation** to create mobile navigation stacks, leveraging **Supabase** and **JWTs** for user authentication
- Complete weekly scrum sprints with a team of 12 to adhere to ambitious project deadlines and alignment with Figma designs
- Review and give constructive feedback to peer pull requests, ensuring alignment with agile development practices

FirstGlance by Literally Helping Startups – Software Engineer Co-op – Boston, MA

Sep 2024 – Present

- Creating **30+ React components** based on Figma designs for a metric-based startup discovery platform using **Next.js**
- Developing and maintaining **~25 OpenAPI-compliant REST endpoints** with **FastAPI**, enforcing strict type validation
- Transitioning legacy infrastructure with raw Firebase queries to **PostgreSQL** with secure, endpoint-protected access
- Leveraging **pytest** and **bun-test** to develop performance and API-level test suites for backend items, achieving **~88%** coverage
- Utilizing **Terraform** to automate software deployment to **AWS EC2** instances, following infrastructure-as-code best practices

Khoury College of Computer Sciences – Boston, MA

Teaching Assistant, Object-Oriented Design May 2024 – Jul 2024

Teaching Assistant, Fundamentals of Computer Science II Jan 2024 – May 2024

- Direct **5 lab sections** of **40-60 students each**, conducting lecture-style sessions on software development best practices
- Grade **30+ assignments** and lab activities weekly, collaborating with professors on grading rubrics and class activities
- Hold office hours for one-on-one mentoring on software engineering, data structures, and model-view-controller patterns

PROJECTS

Nightlife | Go, React Native, PostgreSQL, Docker, Supabase – [GitHub](#)

Sep 2024 – Present

- Develop a mobile app utilizing the **Expo SDK** allowing users to rate, review, and discover nearby nightlife venues and users
- Utilize Google Maps to populate internal **PostgreSQL** database with data for **3000+** venues across the USA
- Model and design database architecture using **Lucidechart**, identifying relationships & key tables for infrastructure scalability

Personal Portfolio Website | Next.js, TypeScript, TailwindCSS, shadcn/ui – [GitHub](#)

Jun 2024 – Present

- Design a portfolio website using **mobile-first stylesheets** with full JSON configurability and async API requests

Fakebook Web Crawler | Python – [GitHub](#)

Mar 2024

- Create a web crawler to traverse and find hidden flags from a mock social networking site using a queue-based algorithm
- Optimize crawl performance from **~30 minutes** to **~5 minutes** by incorporating multithreading for concurrent HTTP requests

Hexagonal Reversi | Java, Swing, JUnit – [GitHub](#)

Nov 2023 – Dec 2023

- Leverage **MVC design patterns** to develop the game Orthello, integrating **observer patterns** for data encapsulation and a GUI
- Adjust to introduction of external codebase using **adaptor patterns**, integrating foreign strategies and coordinate systems

VOLUNTEER

VC Village – Frontend Engineer – Boston, MA

Oct 2024 – Dec 2024

- Transition a legacy frontend codebase from HTML/CSS to **React & TypeScript** for a startup accelerator program
- Develop **~20 responsive UI components and reusable hooks** for efficient data fetching and codebase abstraction

Interests: Competitive Table Tennis, Boating, Latin American Cuisine, Arch Linux, Bachata, Hunter X Hunter