

Haylie Pedersen

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Availability: July – December 2026

EDUCATION

Northeastern University Khoury College of Computer Sciences Candidate for Bachelor of Science in Computer Science	3.82/4.00 – Dean's List Expected May 2027
Highlighted Courses: Object-Oriented Design, Algorithms & Data Structures, Computer Systems, Database Design	
Activities: Northeastern Electric Racing (Developer), NU Women in Technology, Lead360 Program, Cheese Club	

TECHNICAL SKILLS

Languages: TypeScript • JavaScript • Java • Python • C/C++ • HTML • CSS • SQL

Frameworks/Libraries: React • TanStack Query • Tailwind • Flask • FastAPI • Express • JUnit • Streamlit • Prisma

Software/Tools: AWS • Git • Figma • Docker

EXPERIENCE

Verizon Communications (NExT) Software Engineer Co-op	July 2025 – December 2025 Boston, MA
• Architected a full-stack telecommunications sentiment analysis platform using React/TS and FastAPI/Python, deployed on AWS infrastructure (Lambda, S3, ECS, RDS PostgreSQL) with responsive design patterns	
• Maintained automated ETL workflows and data ingestion pipelines with daily triggers to aggregate and transform sentiment and network data from 5+ external sources, revealing geospatial hotspots across all 50 US states	
• Developed Isolation Forest anomaly detection system, flagging emerging issues for proactive trend monitoring	
• Enhanced performance and upgraded key packages, reducing load times by 30% with TanStack Query	
Northeastern Electric Racing Software Developer	September 2024 – Present Boston, MA
• Collaborate with a cross-functional team of ~60 developers in an Agile environment to build a full-stack club management platform, serving 400+ active members	
• Implement database schemas and API endpoints supporting operations including role-based access control, Gantt project tracking, change request workflows, finance monitoring, and competition rule documentation	
Northeastern Office of Student Employment Office Assistant	January 2024 – Present Boston, MA
• Process and respond to 10+ daily service-now.com tickets with 98% resolution rate within 24 hours	
• Manage Workday processes for a student body of 30,000+, ensuring accurate employment records	

PROJECTS

ResearchCompass React, TypeScript, Tailwind, Python, Flask	July 2025
• Built a recommendation engine leveraging vector embeddings to match research abstracts with publication venues	
• Designed wireframes in Figma and built a responsive, user-friendly interface with React and Tailwind CSS	
• Integrated academic databases (DOAJ, arXiv) to provide targeted journal recommendations ranked by relevance	
Aurora React, JavaScript, CSS	December 2024
• Implemented dynamic user interactions with React hooks and state management for optimal performance	
• Leveraged Spotify's API to process 1000+ songs in real time and provide personalized playlist recommendations	
PetFetch MySQL, Docker, Pandas, Python, Flask, Streamlit	August 2024
• Designed and implemented REST APIs in Flask, developing routes to support 15 CRUD operations	
• Built a responsive UI using Streamlit, creating a cohesive user experience with pages tailored to personas	

SKILLS & INTERESTS

Skills: Problem Solving | Motivation | Creativity | Adaptability | Group Leadership & Collaboration

Interests: Hand Lettering | Traveling | Tea Tasting | Fitness | Fantasy Fiction