

Shishir Pokhrel

857-452-7696 | pokhrel.sh@northeastern.edu |
[linkedin.com/in/shishir-pokhrel](https://www.linkedin.com/in/shishir-pokhrel) | github.com/pokhrel-sh | Availability May 2025 - Dec 2025

EDUCATION

Northeastern University

Expected: May 2027

Bachelor of Science in Computer Science

Boston, MA

- Relevant Courses: Software Engineering (CS4530), Data Engineering (DS4300), C++ (CS3520), Systems (CS 3650), Web Development (CS 4550), Mobile Development (CS 4520), Cloud Computing, Object-Oriented Design (Java) (CS 3500), Database Design (CS3200), Data Structures and Algorithms (CS3000)

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL, Kotlin, Swift, C, C++

Frameworks & Technologies: React.js, Node.js, Express.js, Jest, JUnit 5, SQLite, MongoDB, Redis, Apache Spark

Tools & Platforms: Amazon Web Services (AWS), Git, Bash, LaTeX, Make, Docker

EXPERIENCE

Software Development Mentor

Jan 2025 – Present

Oasis at Northeastern

Boston, MA

- Taught over 50 students web development and back-end fundamentals as part of full-stack development training
- Managed sprint plans and provided mentorship to enhance project management and team performance for over 10 teams

Undergraduate Teaching Assistant

Sep 2024 – Present

Khoury College of Computer Science, Northeastern University

Boston, MA

- Led weekly office hours for over 200 students and graded homework for CS 2510 (Java) and CS 2500 (Kotlin)
- Held 1-on-1 meetings to assist students with quiz review & homework help, and provided personalized support

Software Developer

Sep 2024 – Dec 2024

Oasis at Northeastern

Boston, MA

- Led a team of 3 to develop Travel Northeastern, a platform for rating and reviewing international programs, focusing on user-friendly design and functionality
- Presented the project to 50+ people, highlighting technical architecture and impact on campus engagement

Undergraduate Research Assistant

Jun 2024 – Aug 2024

The PAAWS Study, Northeastern University

Boston, MA

- Annotated over 150 hours of video for training and testing machine learning models for wearable devices
- Ensured consistent data labeling using in-house tools, minimizing errors and improving model performance

PROJECTS

SwiftBudget | *Swift, Firebase, Alamofire*

[Github](#)

- Built a budgeting app with hierarchical parent-child accounts, enabling role-based access control for parental oversight using Firebase for real-time data storage and authentication
- Created specialized college student accounts to support financial planning and management

Spreadsheet | *TypeScript, React, Socket.IO, Jest, Github Actions CI*

[Link](#)

- Engineered a spreadsheet application following agile methodologies with features such as live sharing via WebSockets, authentication, access control, data rollback features, and REST API endpoints
- Ensured quality code with integration tests using Jest and deployed the application on a self-hosted backend

Open Legislation (HackHarvard Open Data Track Winner) | *TypeScript, React, Axios*

[Github](#)

- Developed a responsive web application for HackHarvard '24 to track current legislation, providing intuitive visualizations and advanced vector search functionality using data from the Congress API
- Designed and implemented a responsive frontend using React and Tailwind, ensuring seamless navigation and cross-device compatibility

Marble Solitaire | *Java, JUnit 5*

- Created 3 versions of marble solitaire in Java using the Model-View-Controller (MVC) design pattern, enhancing interactivity and user engagement through a text-based UI
- Employed JUnit testing to ensure reliability and correctness of game logic across all versions, achieving a 95% test coverage rate