

# Mohamed Ibrahim

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Availability: May – December 2025 (Co-Op)

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## EDUCATION

**Northeastern University** | Khoury College of Computer Science | Boston, MA

Sep 2023 – Present

Candidate for Bachelor of Computer Science & Finance

Expected Graduation: May 2027

Relevant Coursework: Object Oriented Design, Algorithms and Data, Foundations of Data Science, Financial Management

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## TECHNICAL SKILLS

- **Programming:** Java, Python, JavaScript, HTML, CSS, DrRacket
  - **Framework & Tools:** React, Next.js, JUnit, Tailwind CSS, Git, Java Swing, Jupyter Notebooks, Vercel
  - **Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch
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## EXPERIENCE

**Full-Stack Developer | Ball Up (Startup) | Boston, MA**

March 2025 – Present

- Spearheaded the design and implementation of geolocation-driven court discovery using Google Maps API, enabling real-time pickup-game discovery.
- Developed responsive UI components with React, Next.js, and Tailwind CSS, streamlining game creation and RSVP workflows for an intuitive user experience.
- Engineered RESTful backend services in Node.js, and Express, implementing authentication flows and routing to support scalable user and event management.

**Teacher | African Community Economic Development of New England | Boston MA**

June 2023 – Aug 2024

- During summer programs tailored math instruction for middle school students, boosting confidence through interactive problem solving and real world applications.
  - Throughout the school year led after school Python programming classes for high schoolers, designing hands-on exercises in variables, control flow, and basic data analysis to help them get started in programming.
  - Developed dynamic lesson plans across math and programming, simplifying complex topics and driving measurable gains in student performance and mastery.
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## PROJECTS

**Somali Students Association Website | React.js**

- Designed and deployed a fully responsive website that serves as a central digital hub for over **1,000 monthly users**, facilitating communication, event promotion, and community outreach.
- Implemented a modular front-end architecture using React.js, enabling smooth navigation, fast load times, and cross-device compatibility.
- Improved event visibility and participation rates by streamlining announcements and sign-ups, with analytics tracking integrated for future engagement growth.

**Diabetes Prediction using Machine Learning | Python**

- Analyzed over **250,000 records** from the CDC's Behavioral Risk Factor Surveillance System (BRFSS) to predict diabetes risk and identify influential features.
  - Engineered 20+ features and trained classification models (Logistic Regression, Random Forest, Gradient Boosting), achieving a test accuracy of **80.8%**, **precision of 79.2%**, **recall of 81.5%**, and AUC score of **0.84** using Scikit-Learn.
  - Conducted statistical analyses (T-Test, Chi-Square) to detect model bias across socioeconomic and demographic groups; visualized key correlations and risk factors using Matplotlib.
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## LEADERSHIP

**Treasurer | Somali Student Association, Northeastern University**

Jan 2025 – Present

- Elected by peers to manage financial operations for cultural and community events, leveraging advanced spreadsheet skills to streamline budgeting and reporting.
  - Directing budgeting efforts by designing and maintaining dynamic spreadsheets that track expenses, forecast funding needs, and optimize resource allocation.
  - Coordinated with local businesses for catering and logistics while using data-driven insights to secure essential funding through strategic proposals, inviting innovative approaches and collaborations.
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