

BENJAMIN NGUYEN

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science, Minor in Business Administration

New Brunswick, NJ

Expected December 2024

- **GPA:** 3.42/4.0
- **Coursework:** Data Structures, Computer Architecture, Design and Analysis of Computer Algorithms, Software Methodology, Internet Technology, Introduction to Data Science, Systems Programming, Discrete Structures

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Postgres, MySQL), JavaScript, Typescript, HTML/CSS, Swift, LaTeX

Frameworks: Bootstrap 5, JavaFX, Apache HaDooop

Libraries: React.js, Node.js, Pandas, NumPy, Matplotlib, BeautifulSoup

Developer Tools: Git, VIM, Eclipse, Linux, Wireshark, Xcode, Android Studio

Concepts: Objected-Oriented Programming, Data Analytics, Network Protocols, Restful APIs, System Design

EXPERIENCES

Lead Web Developer

July 2024 – Present

TEDxWilmington

Remote

- Spearheading the design and development of **3+** websites to enhance online presence and interactive platforms.
- Managing security protocols and ongoing maintenance for smooth performance and vulnerability protection.
- Conducting **UX** research to tailor website designs to audience, location, and specific event needs.
- Increasing monthly average viewership to **10,000** by leveraging user data, traffic patterns, and analytics.
- Providing ongoing technical support and troubleshooting for website issues, securing **99.9%** uptime.

Software Engineer Fellow

October 2024 – Present

Blueprint

New Brunswick, NJ

- Engineering responsive web applications using **React** and **Typescript** to deploy to **Vercel**, ensuring efficient performance.
- Collaborating in cross-functional teams utilizing **agile** and **SCRUM** methodologies for development.
- Optimizing applications scalability by creating reusable components and strategies for high-traffic environments.

Software Developer Intern

June 2024 – August 2024

PulseTech

New Brunswick, NJ

- Developed **iOS** applications with Apple Watch compatibility, focusing on health ambient computing for automatic tracking.
- Integrated multiple health frameworks for users to manipulate and track **15+** health metrics in real-time.
- Worked with designers and health professionals to enhance user experience in compliance with industry standards.

SOFTWARE PROJECTS

Mobile Android Photo Application | Java, JavaFX, Android Studio, FXML, Scenebuilder

- Converted a desktop photo manager to a mobile app, focusing on user accessibility and simple layout.
- Increased photo search efficiency by **50%** through custom tagging, enhanced search features, and multithreading.
- Developed admin tools to manage user accounts and enhance functionality.

Memory Allocator Implementation | C, Linux, MakeFiles

- Developed a custom memory allocation library with malloc(), free(), error detection, and leak management.
- Optimized memory usage by implementing coalescence to minimize fragmentation and memory efficiency.
- Conducted performance, unit, and correctness testing to ensure memory allocation and robust operation.

BuyMe Auction Site | Java, JavaScript, HTML, MySQL, JDBC, Tomcat, Git

- Led a team to engineer a local online auction platform with automatic bidding and account management.
- Developed multiple threads in **Java** to refresh and update auction listings, improving timing accuracy by **85%**.
- Adapted hash-tables and collision handling, reducing search times by **25%**.