Alan Zhang

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EDUCATION

Northeastern University   B.S. Expected May 2026 | M.S. Expected May 2027
Candidate for B.S./M.S. in Computer Science, Minor in Mathematics   Boston, MA
Honors: Honors Program, Honors Scholarship, GPA: 3.5/4.0
Relevant Coursework: Object-Oriented Design, Algorithms, Linear Algebra, Web Development, Computer Systems, Database Management, Network Fundamentals, Introduction to Cryptography
Extracurriculars: Member, Collegiate Chess League A-Team; E-Board Member

SKILLS

Programming Languages: Java, C, C++, C#, TypeScript, JavaScript, HTML, CSS, Python, Swift, LaTeX
Databases/Frameworks: MongoDB, MySQL, Microsoft SQL Server, Planetscale, .NET, React
Software: Visual Studio Code, IntelliJ IDEA, WebStorm, CLion, Eclipse, Ignition
Languages: English (Primary fluency), Mandarin (Primary fluency), Spanish (Full professional fluency)

WORK EXPERIENCE

Software Engineering Co-op   Sep - Dec 2025
FactSet Research Systems Inc.   Boston, MA
- Developed an automated comment generation tool using C# and .NET to help financial writers analyze data.
- Collaborated with content writers and designers to improve financial data accuracy and website presentation.
- Leveraged SQL and database management to enhance data accuracy and support analytics for financial content teams.

Software Engineering Intern   May - Aug 2025
UKG (Ultimate Kronos Group)   Lowell, MA
- Used Gemini API and Vertex AI to automate the migration of legacy SoapUI tests to REST Assured, improving maintainability and CI/CD efficiency.
- Integrated automated test pipelines with Jenkins to streamline build verification and regression testing.
- Performed API backend testing and participated in peer code reviews to improve test coverage and ensure reliability.

Software Development Intern   Jun - Dec 2024
Saint-Gobain Performance Plastics   Wayne, NJ
- Built a real-time tracking system in Ignition (Java + Python) to close a critical data gap.
- Designed an intuitive dashboard for machine monitoring, increasing operator adoption.
- Reduced time data discrepancies by 35%, saving more than 20 hours per week and improving manufacturing efficiency.
- Improved documentation and plant-wide software reliability through rigorous code reviews.

PROJECTS

GeoBeats- HackBeanpot 2025 (TypeScript)   Feb 2025
- Created a cross-platform app using Expo Router, integrating Spotify API for playlist creation and account linking.
- Developed location-based features to generate city-specific playlists, delivering personalized music experiences.
- Leveraged data scraping to gather real-time insights and dynamically curate playlists based on location and trends.

Alanaumaton (Python)   Jun 2024 - Present
- Developed a chess bot that mimics my playing style using historical game data.
- Utilized machine learning algorithms to analyze and replicate my strategies and decision-making.
- Implemented the bot with a robust backend and interactive frontend, ensuring seamless game simulations and user experience.

Husksheets (TypeScript, Node.js, Prisma, React, Planetscale)   May - Jun 2024
- Engineered a Google Sheets-like web app with real-time data synchronization, leveraging Axios for API calls.
- Optimized user collaboration by implementing features like multi-user editing, data validation, and version control in a fully functional prototype.
- Led Agile development cycles, managing sprints, backlogs, and delivering a scalable, well-tested product.

Under the Weather- HackBeanpot 2024 (TypeScript, React, MySQL, Python)   Feb 2024
- Engineered an application using machine learning to forecast disease outbreaks and provide actionable weather insights.
- Developed interactive heatmaps to visualize disease trends across the U.S. using geospatial data and advanced displays.
- Designed a seamless, responsive UI that enabled intuitive interaction with complex data sets.

INTERESTS

Chess (National Master), Tennis, Fantasy and Sci-Fi Books