

Patrick Yu

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Education

Northeastern University , Khoury College of Computer Sciences, Boston, MA	Sept. 2021 – Present
<i>Candidate for Bachelor of Science in Computer Science and Business Administration</i>	Expected June 2025
Honors: GPA: 3.836/4.0 Dean's List	
Activities: Valorant Club E-Sports Team Captain Game Development Club Chinese Language Club	
Courses: Object-Oriented Design Algorithms and Data Structures Foundations of Software Engineering Database Design Mobile Application Development Foundations of Data Science	

Work Experience

Software Automation Developer Co-op , Verisk Analytics Boston, MA	July – December 2024
<ul style="list-style-type: none">Implemented enhancements (e.g. error handling, database migration, artifact filtering) for 7 internal tools.Created script-based tools to dynamically optimize Azure Pipeline processes and improve efficiency by 20%.Developed REST APIs to manage S3 bucket operations (e.g. fetching files, copying files between buckets) and GitHub actions (e.g. listing artifacts from GitHub workflow runs), laying the foundations for a new internal tool.Actively contributed as a member of a Scrum team, utilizing Agile methodologies such as backlog grooming sessions, daily stand-ups, and regular sync-ups.	
User Services IT Co-op , Harvard T.H. Chan School of Public Health Boston, MA	July – December 2023
<ul style="list-style-type: none">Resolved over 20% of overall daily tickets by scheduling meetings with users, troubleshooting their issues, and following through on steps to solve the users' complications.Managed over 15 tickets every week while providing timely results on other routine requests and projects.Oversaw Virtual Desktop Infrastructure (VDI) onboarding process and training to provide a smooth workflow transition for over 110 new VDI users.Collaborated across multiple teams, including the Networking, Security, and Server teams in daily stand-up meetings to deliver stellar results on all ongoing projects resulting in consistent 5-star feedback reviews from users.	
Product Engineer Intern , Virgin Pulse Providence, RI	July – August 2019
<ul style="list-style-type: none">Validated test specifications and implemented testing plans for 2 hardware engineering products using Android Studio.Facilitated efficient troubleshooting and provided valuable insight that informed design modifications for hardware products.Collaborated with team members to deliver detailed test reports during daily stand-up meetings.	

Projects

\$neak Kotlin	May 2024
<ul style="list-style-type: none">Designed and developed a mobile Android application for sneaker shopping allowing users to browse the store, add items to their cart, and complete purchases.Implemented MVVM (Model-View-ViewModel) architecture to ensure clean separation of concerns and maintainability.Applied test-driven development principles to design comprehensive unit tests to maintain consistent functionality.	
Spotify Sensations Python	April 2024
<ul style="list-style-type: none">Collaborated with a team to develop a machine learning model in Python to predict the likelihood a Spotify song would reach the Top 100 charts based on features like artist, genre, and beats per minute of the song.Conducted data preprocessing and EDA (exploratory data analysis) to ensure clean, well-structured data for model input.Trained and optimized 3 models using K-Nearest Neighbor, Random Tree Regression, and Decision Tree algorithms while leveraging CVGridSearch for hyperparameter tuning to maximize accuracy.	
Book Bank MySQL, Python	April 2023
<ul style="list-style-type: none">Managed a group to develop a book swap web application in which users can add, remove, trade, and search for books in an online database.Created a vast relational database in MySQL and deployed using Docker to store information about 1000+ books and users.Utilized the Flask Python microframework to create the backend of the web app and implement the REST API we designed.Used AppSmith to host the web app and create an interactive UI for users.	

Technical Knowledge

Languages:	Java C# MySQL PostgreSQL Python Kotlin JavaScript TypeScript PowerShell React
Tools/Frameworks:	Azure DevOps AWS Git TFVC NuGet Docker Figma .NET Angular Flask CI/CD