

# Wesley Choi

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## EDUCATION

### Boston University

Expected May 2025

*Bachelor of Arts in Computer Science, Minor in Mathematics*

*3.78 / 4.00 GPA*

- **Awards:** Dean's List (3 semesters), Upsilon Pi Epsilon Computer Science Honor Society
- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Operating System, Functional Programming, Distributed System, Database, Cybersecurity, Probability

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, Golang, TypeScript, Lua, Ocaml, SQL

**Tools:** React, Next.js, Express, Git, Docker, MongoDB, MediaPipe, TensorFlow, Wireshark, VS Code, Linux

## PROFESSIONAL EXPERIENCE

### IT Service Management Team Intern

June – Aug. 2023

*Tai Fung Bank*

*Macau*

- Redesigned and improved the intranet using SharePoint 2019 and Nintex and managed SQL requests, resulting in a more visually appealing and user-friendly interface, ultimately increasing productivity and user satisfaction
- Migrated 200+ user information and 1000+ previous form records seamlessly to the new SQL server, ensuring comprehensive data transfer without any loss or omission
- Maintained and troubleshooted the internal computer infrastructure and network, resolving 60+ technical issues
- Improved operational efficiency and strengthened security protocols for 20+ computers across branches through the operating system and hardware upgrades, alongside resolving issues

## PROJECTS

### 2D Endless Runner | C#, Unity, Aseprite

- Building a 2D endless runner with an collaboration with one other developer and art illustrator
- Engineered a random obstacle generator, dynamic difficulty adjustment system, and AI tracking algorithm to enhance gameplay mechanics and player engagement

### Let's Cover! Web App | TypeScript, React, Node.js, MongoDB, HTML/CSS

- Utilized OAuth 2.0 protocol to interface with Spotify API for accessing user information and dynamically generated song playlists matching themes extracted from user-input images through Everypixel Labs API
- Spearheaded frontend development with React and HTML/CSS to deliver an interactive website with dynamic user interfaces and seamless backend integration

### Light Dodger Arcade Game | C++, Arduino, AutoCAD

- Led a team of 4 to create a light-dodging arcade game, raising \$300 for Caritas Macau at a charity fair
- Designed and constructed a 4ft x 4ft gaming box, incorporating wires and LED components, utilizing AutoCAD for precise design and 3D printing for fabrication.
- Programmed game logic, dynamic LED effects, and designed 10 engaging levels to elevate player experience

### Log4Shell Scanner | Java, Python, Tomcat

- Created a Log4Shell vulnerability scanner for web applications, eliminating false negatives by extending scans to associated third-party network components
- Optimized efficiency by 30% compared to existing scanners through the integration of rate limiting and multithreading while ensuring server stability

## ACTIVITIES

### Boston University MahJong Club

Jan. 2023 – Present

*Secretary | Former Director of Communication*

*Boston, MA*

- Managed all social media accounts to promote events and facilitated 10+ collaborations with other organizations

### Hack Innovat3

Mar. 2024

*Second Place Winner | Participant*

*Boston, MA*

- Developed a virtual blackboard to enhance elementary student learning, applying MediaPipe to recognize hand signs and track finger gestures, enabling identification of 40+ letters and virtual handwriting and erasing