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 (4 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, Data Science

SKILLS

Programming Languages: Java, Python, C#, Golang, TypeScript, Lua, SQL
Tools: React, Next.js, Node.js, Git, Docker, MongoDB, AWS, Firebase, CI/CD, TensorFlow, Wireshark, Linux
Languages: English, Cantonese, Mandarin

PROFESSIONAL EXPERIENCE

Freelance FullStack Developer — Sep. 2024 – Present
ACT Law Firm — *Remote*
- Developed a responsive landing page with visually appealing animations using Next.js and Framer Motion
- Integrated and managed third-party APIs for Google Maps and form submission, ensuring reliable operation
- Spearheaded SEO strategies, resulting in increased organic search traffic and improved search engine rankings

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 troubleshot 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

Greenview | *TypeScript, React, Firebase, HTML/CSS, Framer Motion, Shadcn/ui*
- Developed a web app to enhance student awareness of sustainability on campus through data visualization using animations and engaging features like leaderboards, footprint calculator, and sustainability map
- Adopted Scrum and Agile methodologies to ensure the timely delivery of features through 10 weekly sprints, utilizing CI/CD tools for automated testing and deployment to enhance application stability

Log4Shell Scanner | *Java, Python, Tomcat*
- Created a Log4Shell vulnerability scanner for web applications, reducing 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

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

Magic Blackboard | *Python, MediaPipe, TensorFlow*
- 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

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 built a 4ft x 4ft gaming box with integrated LED components, using AutoCAD for design and 3D printing for fabrication, while programming game logic and dynamic effects to enhance player experience