

# Edward He

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## EDUCATION

<b>University Of Ottawa</b> <i>Honour Bachelor of Science with Major in Computer Science and Minor in Mathematics</i> <ul style="list-style-type: none"><li>• Good Academic Standing at 80 GPA</li><li>• Undertook comprehensive coursework: Algorithm Design, Software Engineering, Data Structures, Computer Architecture, Databases, User Interfaces, Discrete Structures, Statistics, and Calculus.</li><li>• Dean's Honour List: 2022 winter, 2024 winter</li><li>• Awarded \$3000 Admission Scholarship for academic excellence.</li><li>• Secured \$1000 First Year Merit Scholarship recognizing outstanding performance.</li><li>• \$1000 Eng.WivesAssociation Ottawa Bursary</li></ul>	Ottawa, ON, Canada <i>Sep. 2021 – Jun. 2025</i>
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## EXPERIENCE

<b>Junior Software Developer - VBA Automation Script</b> <i>Asiacom-Americas</i> <ul style="list-style-type: none"><li>• Conceived an automation script streamlining the consolidation of weekly employee reports into a singular bi-weekly report.</li><li>• Achieved an impressive script performance of <math>O(n)</math>, drastically diminishing the HR team's workload for pay report conversion.</li><li>• Employed a modular programming approach, segmenting the script into distinct functions, each addressing specific tasks.</li><li>• Enhanced code readability and maintenance, simplifying the adaptation process for developers.</li><li>• Amplified the HR team's operational efficiency twofold by eliminating manual report conversion.</li><li>• Achieved a 10% cost reduction in report conversion by eliminating the need of converting manually and paying for spreadsheet software, leading to significant time and resource savings for the company.</li></ul>	June 2022 – August 2022 <i>Dulles, Virginia, U.S.A.</i>
<b>Junior Software Developer - Laptop Application</b> <i>Nanjing Unitech Electric Power Company</i> <ul style="list-style-type: none"><li>• Spearheaded the creation of the "UnifiedMonitor" application to seamlessly fetch real-time solar panel data from manufacturers' websites.</li><li>• Utilized tools such as Selenium for web automation, Guava for utility functions, and Jsoup for HTML parsing.</li><li>• Integrated a sophisticated data-fetching algorithm with a complexity of <math>O(n^2)</math>, ensuring optimal data retrieval.</li><li>• Implemented a robust wait-and-check mechanism, ensuring the program captures the required web elements upon their availability.</li><li>• Designed a user-centric interface in template.html, offering a visually appealing SVG illustration to represent real-time data.</li><li>• Facilitated maintenance workers with an unified dashboard, eliminating the need to navigate multiple web pages for each device.</li><li>• The application aids in side-by-side device comparisons, ensuring quick anomaly detection, which empowered workers with instant insights into power consumption metrics of individual devices.</li></ul>	July 2023 – September 2023 <i>Remote Working</i>
<b>AI Trainer</b> <i>Outlier AI</i> <ul style="list-style-type: none"><li>• Optimized AI model performance by refining response accuracy and enhancing contextual understanding.</li><li>• Developed and implemented advanced code solutions to improve the AI's problem-solving capabilities and efficiency.</li><li>• Crafted precise and engaging content to elevate the AI's writing proficiency, focusing on coherence, style, and readability.</li><li>• Conducted comparative analysis of model outputs, identifying key areas for improvement and updating training data to enhance the AI's ability to generate superior content.</li></ul>	Jan 2024 – Aug 2024 <i>Remote</i>

## PROJECTS

<b>Course Booking App</b>   <i>Java, SQL, AndroidStudio</i> <ul style="list-style-type: none"><li>• Developed a dynamic Android application using Android Studio, leveraging Java for the back-end logic and XML for a responsive front-end design.</li><li>• Integrated a robust SQL database, effectively storing and managing both student and admin account data, ensuring data integrity and security.</li><li>• Engineered adaptive layouts offering intuitive user experiences tailored to distinct user roles, each with specific permissions and functional capabilities, optimizing usability.</li><li>• Ensured the application's reliability and performance by incorporating comprehensive JUnit testing, mitigating potential issues and ensuring consistent functionality.</li></ul>	September 2022 – December 2022
<b>Hotel Database Management Simulation System</b>   <i>Java, html, jsp, PogreSQL, IntelliJ</i> <ul style="list-style-type: none"><li>• Orchestrated an advanced hotel management solution, offering an effortless administrative experience and top-tier user interactions.</li><li>• Architected a resilient PostgreSQL database system, expertly integrating advanced features such as triggers, hierarchical structures, and table associations to ensure seamless automation and uphold data integrity across interconnected tables.</li><li>• Leveraged Java to build comprehensive backend utilities, complementing them with responsive UI elements developed using HTML and JSP to facilitate real-time interactions and operational functionalities.</li></ul>	January 2023 – May 2023
<b>Stopwatch App</b>   <i>React, JavaScript, CSS</i>	January 2024

- Designed and implemented a React-based stopwatch application, demonstrating proficiency in modern web development and UI/UX design.
- Employed state management and effect hooks in React to create a responsive and efficient user interface, showcasing technical expertise.
- Developed comprehensive test suites using React Testing Library and Jest to ensure application reliability and robustness.
- Focused on creating an intuitive and user-friendly interface, emphasizing the importance of a seamless user experience.
- Deployed at My Stopwatch App

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres, MySQL), JavaScript, HTML/CSS

**Frameworks:** JUnit, Python Unit Test

**Developer Tools:** Microsoft Azure, Android Studio, jpackage, maven, cuda(parallel programming on GPUs), docker

**Libraries:** pandas, NumPy, tkinter

## CERTIFICATES

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Microsoft Azure AZ-900