

# Jeff He

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## SKILLS

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**Languages:** Python, HTML/CSS, JavaScript/TypeScript, Java, PHP, SQL (MySQL)

**Frameworks:** Node.js, Next.js, Angular, Tailwind, Express, jQuery, Detox, Puppeteer

**Tools:** Git, Testrail, AWS, Charles Proxy, Firebase, Postman, TensorFlow, Figma, Adobe Photoshop

**Libraries & Concepts:** OOP, APIs, CI/CD, React, p5.js, Langchain, OpenAI

## WORK EXPERIENCE

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### Johnson Controls

Jan 2026 – Ongoing

Software Quality Assurance Analyst (Full-time)

- Built Python end-to-end regression automation covering most manual test cases, significantly reducing manual testing effort.
- Added TLS-based MQTT encryption, improving data security and compliance for device communications.
- Integrated automated tests into CI/CD pipelines, enabling continuous validation on every build.

### Outlier AI

Oct 2024 – Ongoing

AI Coding Trainer (Freelance)

- Performed exploratory testing on AI-generated JavaScript code to identify and then fix crucial bugs
- Wrote unit test cases with Jest on AI generated code to ensure correctness and reliability
- Designed and implemented production-level web applications to train LLM models for prompt-to-UI generation

### University of Toronto Scarborough

Sept 2023 – Dec 2023

Application Developer (Co-op)

- Refactored website theming to improve content visibility with HTML, CSS, and JS.
- Created Drupal modules to allow easier navigation and search, with PHP and jQuery.
- Fixed critical bugs within modules which resulted in crashes and downtime.
- Increased website loading speed fivefold by optimizing map clustering.
- Communicated with stakeholders to transform requirements into functional websites.

### Rakuten Kobo

Sept 2021 – Apr 2022

Mobile QA Test Engineer (Co-op)

- Ensured app stability by developing and executing test cases for regression testing on Testrail.
- Discovered and recorded existence of bugs on Jira to be prioritized via ad hoc/exploratory testing.
- Tracked performance of the iOS app manually and via firebase analytics for user satisfaction.
- Traced API calls using Charles proxy and Postman to ensure correct data was being sent and received.

## EDUCATION

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### University of Toronto

Sept 2019 – Aug 2024

Honours Bachelor of Science, Computer Science (Co-op)

## PROJECTS

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### Portfolio Website

Node.js, React.js, Next.js, Tailwind, Express.js, AWS, CI/CD

- Incorporated responsive mobile first design principles with Next.js (React), & Tailwind CSS.
- Developed an email server for communication with Express.js and Nodemailer
- Created CI/CD pipelines on GitHub for automatic deployment on an AWS EC2 instance.

### BMBluff

Node.js, React.js, p5.js, Express.js, Socket.io, TensorFlow

- Implemented real-time card recognition from user webcam via TensorFlow and Peer.js.
- Seamlessly synced game state and logic between players with socket.io and Express.js.
- Created and integrated a responsive frontend with 2D game graphics with React.js and p5.js.