Brandon Tran Le

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EDUCATION

University of California, Los Angeles Los Angeles, CA
Bachelor of Science in Computer Science *Sep. 2022 – Jun. 2026*

Monterey Peninsula College Monterey, CA
Associate's in Social Sciences *Jun. 2020 – Jun. 2022*

EXPERIENCE

Undergraduate Researcher (Cybersecurity) Oct. 2024 – Present
University of California, Los Angeles *Los Angeles, CA*

- **Conducting security-related research under Professor Yuan Tian**, analyzing over 100K+ data points from online platforms to identify gaps in digital literacy
- **Developed a web scraper in Python** to collect and analyze data from multiple platforms, including SideQuest VR, an Reddit, **reducing runtime by 95% through multi-threading and API handling**

Co-Founding Software Security Engineer Jan. 2024 – Oct. 2024
Vitametrics *Monterey, CA*

- **Wrote 40K+ lines of code**, developing **HIPAA compliance** in secure, reusable React.js components and back-end solutions. **Improved loading times by 80%** while ensuring secure data exchange in APIs
- **Managed a beta test with 100+ Fitbit devices** at Iowa State University, **collecting security-related feedback and performance data** to identify vulnerabilities and optimize application performance
- Implemented security practices, including **encryption, secure session management,** and **input validation**, to protect sensitive data and **ensure ISO 27001 compliance** during collaboration with academic partners

Software Security Engineer Intern Jan. 2024 – Apr. 2024
Intern Guys *Irvine, CA*

- **Fixed a security vulnerability** in an HTML form exploited by spam, SQL injection, and XSS attacks. Implemented CAPTCHA, rate limiting, and input sanitation, **stopping potential attacks for 20,000+ users**
- **Deployed a Two-Factor Authentication (2FA) system** using email verification methods, **strengthening security posture** and **reducing unauthorized access attempts per month by 90%**
- **Engineered a full-stack blog platform** in C# and React.js, raising monthly user engagement by 2500+ users

Web Application Security Developer Jun. 2023 – Dec. 2023
Monterey Peninsula College *Monterey, CA*

- Managed production web server for a community college application, implementing **role-based access control, SSL encryption, and firewall configurations**, ensuring **secure access and 99.9% uptime**
- **Created a peer-grading website** using PHP, Bootstrap, and SQLite to handle 600 project submissions, enforcing input sanitation to **prevent parameter tampering and reduce front-end security vulnerabilities**
- **Built a Python API** to sort and allocate 3 project links to each user for peer grading, **automating and reducing manual processing time by 99.87%**

Security Engineer Intern Jun. 2023 – Dec. 2023
Hexfork *Oxford, England, UK*

- Led a team of five interns to achieve a **10,000+ increase in user clicks** while **increasing protection against common web vulnerabilities** in the company's React.js site
- **Performed security assessments using WireShark and Nmap**, identifying and mitigating 6 vulnerabilities across multiple services and web applications, enhancing the company's security posture
- **Developed an automated Python bot** for recording employee hours, implementing security measures that **reduced the risk of tampering by 90%** using verification

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, C++, Python, PHP, SQL, HTML/CSS, Shell
Frameworks & Libraries: React, Express (Node), Material-UI, .NET Core, Tailwind CSS
Tools: Amazon Web Services, Azure DevOps, WireShark, NMap, Docker, Git, Node, Jest
Practices: NIST, OWASP, Incident Response, Code Reviews, Pair Programming, Unit Testing, Agile Development