

# Justin Lee

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## Software Engineer

Full-stack developer specializing in AI/ML, cybersecurity, and enterprise architecture. Proven track record in delivering scalable solutions across cloud platforms and implementing secure data pipelines.

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## PROFESSIONAL EXPERIENCE

### ProgramEarth

#### Software Engineer Fellow

March 2025 – Present

Location: Remote

- Participated in a transition program bridging bootcamp education to professional software engineering roles
- Led development of an environmental monitoring system architecture focusing on data sovereignty and scalability:
  - **Data Sources:** Integrated IoT environmental sensors, government water APIs, and Meta Canopy Map/Google Earth Engine data
  - **Data Pipeline:** Implemented secure data flow using Palo Alto Networks, Oracle Database, and containerized microservices
  - **Cloud Infrastructure:** Architected multi-cloud solution utilizing AWS Lambda, S3 Data Lake, and GCP BigQuery Analytics
  - **Integration Layer:** Developed API Gateway with robust data transformation and privacy controls
  - **Visualization:** Created desktop mapping interface with Twilio SMS notification system
- Contributed to enterprise-grade development practices:
  - Managed project lifecycle using GitHub Projects, Issues, and Wiki documentation
  - Implemented CI/CD workflows with GitHub Actions and Heroku
  - Enhanced code quality through CodeQL security scanning and Snyk vulnerability testing
  - Utilized HashiCorp Vault for secrets management and secure configuration
- **Technologies:** AWS (Lambda, S3), GCP (Earth Engine, BigQuery), Docker, Terraform, Oracle DB, GitHub Enterprise Stack, Postman, Twilio, HashiCorp Vault

### Hack the Hood: Build

#### Software Engineer Fellow

August 2024 – December 2024

Location: Remote

- Collaborated in an initiative helping underrepresented communities develop web development skills
- Worked on real-world projects for nonprofits and small businesses
- Developed technical skills while contributing to a more inclusive tech ecosystem

### Kollaboration

#### Software Implementation Consultant

August 2024 – September 2024

*Location: Remote*

- Enhanced website UX/UI, identifying and implementing improvements that resulted in an estimated **>20% increase** in user engagement
- Led platform migration from WordPress to Squarespace, ensuring data integrity and SEO retention while minimizing downtime
- Conducted comprehensive assessments of client websites, providing actionable recommendations for performance optimization

## GitHub {All In} Open Source

### Software Engineer Apprentice

*February 2023 – April 2023*

*Location: Remote*

- Participated in open source education and training program
- Collaborated with underrepresented tech students on various projects
- Gained practical experience in open source development

## Microsoft KC7 Cybersecurity Hackathon

**Runner-Up • 2023**

- Applied threat analysis using Diamond Model framework
- Implemented KQL queries for malicious activity detection in Azure
- Analyzed APT infrastructure through PassiveDNS and audit logs

## Fraud Detection ML Project

**Machine Learning Engineer • 2023**

- Built fraud detection model achieving high precision using Random Forest
- Engineered features using Python, Pandas, and NumPy
- Implemented cross-validation and hyperparameter optimization

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## EDUCATION & CERTIFICATIONS

### Western Governors University

*Bachelor of Science Degree in Computer Science*

- Coursework: Software Development, Data Structures & Algorithms, Network & Security, IT Project Management, Operating Systems, Artificial Intelligence
- Certifications: ITIL Foundation Certified, CompTIA Project+ Certified

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## TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, C#, PHP, JavaScript
- **Cloud & Data:** AWS, GCP, SQL, Docker, Terraform
- **ML/AI:** Scikit-Learn, Pandas, Matplotlib
- **Security:** KQL, Threat Analysis, HashiCorp Vault
- **Other:** Git, CI/CD, Japanese (Fluent)