Eire Ford

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Skills

- **Web Services and APIs:** Proficient in developing highly available, scalable web applications, enterprise services, integrations, and APIs on cloud-based platforms, including AWS and GCP.
- Agile Software Development: Practiced in project management, utilizing agile methodology in collaboration with cross-functional teams to translate business requirements and product vision into applications and IT solutions.
- **Programming Languages:** Proficient in Java, Python, and JavaScript with production experience.
- DBMS: Experienced in SQL, ETL operations, schema design, and security for PostgreSQL and MySQL.

Experience

Software Engineer

Remotely Video, Portland, OR August 2021 - December 2022

- Collaborated with cross-functional teams including project managers, product owners, and technical and non-technical stakeholders to define user stories, objectives, key results, sprint plans, tasks, relative estimations, risk management, backlog refinements, and sprint reviews.
- Designed and developed an IAM API using Python/Flask to support Auth0 and Google Workspace authentication, enabling single sign-on, role-based access control, and asset management for multiple tenants on AWS (S3 and FreeNAS).
- Automated CI/CD pipelines for Python APIs, Node.js Strapi, and React web applications using Jenkins and GitHub Actions.
- Developed CloudFormation and Docker Compose infrastructure as code to implement enterprise applications for multi-tenant video production.
- Services included process automation, Python notebooks, and QUIC file transfer with checksum validation and auditing for privileged user access.

Software Engineer

DF Studio, Los Angeles, CA April 2018 - December 2018

- Developed and automated end-to-end and functional tests using Jenkins,
 CloudFormation, and Selenium WebDriver for Java/Kotlin, ensuring compatibility across browsers and mobile devices.
- Extended CI/CD pipeline for Java (Kotlin) and Vue web applications to include performance and security testing, covering broken access control, malicious code injection, and CSRF vulnerability.
- Initiated research, development, and testing of remediations for web application security vulnerabilities, including OWASP ESAPI.

Analyst Programmer II

University of Oregon, College of Education, Eugene, OR April 2012 - June 2016

- Designed and implemented a highly available, scalable online learning platform using LAMP, JS, and open-source software, serving international teachers and students with role-based access and auditing, and delivering 99.99% availability for 3,000+ concurrent international users.
- Developed SSO middleware and API using PHP (Laravel/Lumen) with OAuth and LDAP integration.
- Ensured HIPAA and FERPA compliance and best practices across multiple institutions and nationalities.
- Oversaw third-party development of JS (Bootstrap) front-end, including code review and automated end-to-end testing for security and functionality.

Software Development Engineer in Test

Palo Alto Software, Eugene, OR November 2010 - March 2012

- Wrote cross-browser and end-to-end tests in Java using Ant, TestNG, and Selenium WebDriver to ensure quality and functionality across multiple browsers and mobile devices.
- Developed and implemented CI/CD and monitoring using Jenkins and CloudFormation to assess performance, availability, and functionality.

Senior Systems Implementation Engineer

Lumigent Technologies, Inc., Acton, MA October 2005 - November 2008

- Implemented auditing and rule enforcement systems for SOX, HIPAA, and PCI compliance using Java on highly available Oracle RAC and MSSQL cluster DBMSs on Unix, Linux, and Windows servers.
- Designed and delivered services for the configuration, change management, and privileged user access auditing of mission-critical systems at large financial, healthcare, and government institutions.
- Managed projects, defined requirements, wrote documentation, and trained technical and non-technical users on web applications, business processes, and DBMS operations and configurations.
- Managed escalations, mentored support staff, and monitored performance for client support.
- Provided incident response, forensics, and remediations for software and hardware issues.
- Evaluated, monitored, and tested the functionality, performance, and reliability of in-house and third-party deliverables and solutions.

Education and Certifications

Western Governor University, Mill Creek, UT Currently enrolled full-time

Coursera Specializations

- Advanced Machine Learning on Google Cloud (April 2021)
- Data Engineering with GCP (November 2019)

• Deep Learning (October 2020)