AMY SCHLESENER

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TECHNICAL SKILLS

Languages: Go, C#, Python, Java, SQL
Backend Services: REST and GRPC microservices, API design, automated testing
Databases: SQL Server, MySQL, DynamoDB
Application Security: Secure coding techniques, web application security, network security
Other: Git, Kafka, Docker, Kubernetes

EXPERIENCE

AXON, Seattle, WA   **September 2019 - Present**
Senior Software Engineer

- Working across Scala backend cloud services, Go firmware, and a Go client application, for Axon's in-car connected device system used by law enforcement vehicles
- Served as tech lead for Axon's livestreaming product; improved operational excellence by implementing on-call process, creating telemetry dashboards, and doing production investigations with firmware team, resulting in a livestream success rate increase from 69% to 92%
- As tech lead, led a team of 6 engineers to add new livestreaming features and address operational issues, ran scrum processes such as sprint planning, and reported up to senior leadership
- Built automated testing framework in Go to test backend Java services by simulating clients connecting over websockets and implementing a state machine of actions, deployed in Kubernetes and used for load and chaos testing of Axon's 911 dispatch product

CAPITAL ONE, Seattle, WA   **June 2018 - September 2019**
Principal Software Engineer

- Owned orchestration layer service (Go, GRPC) of new financial product; collaborated with multiple teams, including mobile, design, and backend, to add new features to service, resulting in successful release of product to 160k beta customers
- Built a large-scale distributed system in AWS to run data science models in production (Luigi, Dask, various AWS services) as part of the data engineering team
- Wrote Kafka producer in Python for streaming and transforming stock purchase data stored in S3
- Taught secure coding classes to engineers, focusing on OWASP vulnerabilities, resulting in 22 other Capital One associates obtaining their internal security certification

EXPERTVOICE, Kirkland, WA   **November 2016 - May 2018**
Software Engineer III

- Increased performance of an autocomplete search by storing large data in Elasticsearch and populating with an Azkaban job, resulting in an 80 times faster search response
- Quickly ramped up on Go to build one of the first Go microservices used in production at the company, training teammates and evangelizing the language to colleagues
- Added features to services and websites across the full stack, including database (MySQL), API (Go, Java, Ruby on Rails), and web apps (JSP, JavaScript, Backbone.js, CSS/SCSS)

BLUETOOTH SIG, Kirkland, WA   **May 2015 - November 2016**
Software Developer III

- Served as lead developer for company ticketing system; designed and implemented architecture, code, and deployment strategy
- Built an internationalized customer registration web application in AngularJS with Typescript
- Wrote a web service in C#, built on ASP.NET Core and Entity Framework with SQL Server, to support the registration web application and integrate with other services
- Received multiple company-wide employee recognition awards for being vital to the success of projects

LOGOS RESEARCH SYSTEMS, Bellingham, WA   **June 2013 - August 2014**
Software Developer (August 2013 - August 2014)
Software Developer Intern (June 2013 - August 2013)

- Designed and implemented a system in C# and JavaScript that drastically reduced hacking attempts on customers' website accounts by using a proof-of-work protocol on login
- Analyzed company website for security vulnerabilities, using tools such as BurpSuite, and remediated them; configured network security through F5 BIG-IP
- Added various backend features to customer-facing .NET web applications and APIs

WESTERN WASHINGTON UNIVERSITY, Bellingham, WA   **January 2013 - March 2013**
Computer Science Teaching Assistant

- Led one two-hour lab each weekly for Programming Fundamentals in C++ (CSCI 140) and Computers and Applications (CSCI 101); provided tutoring, grading, and feedback for 60+ students
- Taught C++, Linux, HTML, JavaScript, Visual Studio, algorithm design, and computer science/programming concepts like control structures

EDUCATION

Bachelor of Science, Computer Science
Western Washington University, Bellingham, WA

CERTIFICATIONS

AWS Certified Solutions Architect - Associate
Credential ID: 84HKFPDKEJFEQ09Z

Certificate in Ethical Hacking
University of Washington, Professional & Continuing Education
A nine-month-long program with labs covering topics such as penetration testing, network/web/application security, and reverse engineering, culminating in a Capture the Flag exercise

Stanford Certificate of Achievement in Advanced Cybersecurity
Stanford Center for Professional Development

PUBLICATIONS

Co-Author, **"Approaches for Preventing Honeypot Detection and Compromise"**, IEEE Global Information Infrastructure and Networking Symposium (GIIS), October 2018