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Amazon Application Security Engineer Interview Preparation

Job Overview

Position: Application Security Engineer - SDO AppSec EMEA

Focus: Security generalist with deep expertise, collaborating with development teams to maintain customer trust

Key Responsibilities (From Job Description)

- Threat Modeling: Creating, updating, and maintaining threat models for diverse software projects
- Secure Code Review: Manual and automated review in Java, Python, JavaScript
- Security Automation: Development of tools to help developers build securely and faster
- Adversarial Analysis: Using security tools to augment manual effort
- Training & Outreach: Security education for development teams
- Architecture Guidance: Security design for new services
- **Problem Solving**: Novel approaches to security challenges
- **Influence**: Guiding teams toward secure solutions through communication

Interview Process

Phone Screen (60 minutes)

- 30 minutes Technical: Vulnerability Remediation, Threat Modeling, Scripting, Code Review
- 30 minutes Behavioral: Leadership Principles using STAR method

Virtual On-site (4-5 hours)

- Multiple 60-minute sessions with security team members
- Mix of technical deep-dives and behavioral interviews
- Each interviewer tests 2-3 Leadership Principles

Repository Structure (Prioritized by Amazon's Requirements)

© Core Technical Skills (Phone Screen Focus)

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├── 1-threat-modeling/ # Primary responsibility - threat models for software projects
├── 2-secure-code-review/ # Daily activity - Java/Python/JavaScript review  
├── 3-security-automation/ # Key requirement - tools for developers  
├── 4-vulnerability-analysis/ # Adversarial analysis and remediation
```

Leadership & Communication (50% of Interview)

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├── 5-leadership-principles/ # STAR method responses for all 16 principles
├── 6-influence-communication/ # Technical to non-technical communication
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Amazon Context & Preparation

Quick Start for Interview Prep

Phase 1: Master Core Skills (Weeks 1-2)

- 1. **Threat Modeling**: Practice Amazon-scale scenarios (100M+ users)
- 2. Code Review: Live review skills in Java/Python/JavaScript
- 3. Automation: Build security tools using Python and AWS services

Phase 2: Perfect the Interview (Weeks 3-4)

- 1. Leadership Principles: Memorize 16 STAR stories with quantified impact
- 2. **Communication**: Practice explaining technical risks to business stakeholders
- 3. Mock Interviews: Technical scenarios + behavioral questions

Success Criteria

- Can threat model complex systems in 15-20 minutes
- Can identify security issues in live code review within 5-10 minutes
- Can write security automation scripts from scratch
- Can deliver any Leadership Principle story in 3-4 minutes with specific metrics
- Can explain technical security concepts to non-technical audiences

Key Amazon Values

- Customer Trust: Every security decision impacts customer experience
- **High Standards**: Continuous improvement and raising the bar
- Scale Thinking: Solutions must work across Amazon's diverse businesses
- Innovation: Novel approaches to security challenges
- **Collaboration**: Working with development teams, not against them

Remember: Amazon doesn't assess based on your CV - everything depends on what you tell them during interviews. Structure and specific examples with data are critical for success.