

## Melanie Golden

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## SUMMARY

Highly skilled Senior Software Engineer with 5 years of experience in Security, specializing in designing and implementing robust security protocols. Proven track record of delivering secure and scalable systems, with a strong passion for staying up-to-date with the latest security trends and technologies.

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## EXPERIENCE

### Senior Software Engineer

*VantaLabs, 2018–2023*

- Designed and implemented multiple security protocols using encryption algorithms like AES and RSA, resulting in a 95% reduction in security breaches
- Led a team of engineers in developing a secure API gateway using OAuth 2.0 and JWT, which improved authentication efficiency by 30%
- Collaborated with the DevOps team to implement a CI/CD pipeline using Jenkins and Docker, reducing deployment time by 40%
- Mentored junior engineers in secure coding practices and conducted regular code reviews to ensure high-quality code

### Software Engineer

*HealthNet AI, 2015–2018*

- Developed a secure data storage system using MongoDB and SSL/TLS encryption, which ensured HIPAA compliance and protected sensitive patient data
  - Worked on a team to design and implement a threat detection system using machine learning algorithms and Apache Kafka, resulting in a 25% increase in threat detection accuracy
  - Participated in a hackathon and developed a secure authentication system using facial recognition and two-factor authentication
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## PROJECTS

### Secure Voting System

*Personal Project, 2020*

- Designed and implemented a secure online voting system using blockchain technology and smart contracts, ensuring the integrity and transparency of the voting process
- Developed a user-friendly interface using React and Redux, which improved user engagement by 20%
- Conducted a security audit and implemented multiple security measures to prevent common web vulnerabilities like SQL injection and cross-site scripting

### Encryption Tool

*Open-Source Project, 2019*

- Developed a command-line encryption tool using Python and the cryptography library, which provided a simple and secure way to encrypt and decrypt files
  - Implemented a secure key exchange protocol using Diffie-Hellman key exchange, ensuring secure communication between parties
  - Published the project on GitHub and received positive feedback from the open-source community
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## TECHNICAL SKILLS

Languages: Python, Java, C++

Frameworks: Django, React, Angular

Cloud: AWS, Azure, GCP

Tools: Git, Docker, Jenkins

Databases: MySQL, MongoDB, PostgreSQL

OS: Windows, Linux, macOS

Security Protocols: SSL/TLS, OAuth 2.0, JWT, AES, RSA

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## EDUCATION

B.S. in Computer Science, Stanford University, 2015

GPA: 3.5/4.0

Relevant Courses: Computer Security, Cryptography, Data Structures, Algorithms

