

ARJUN SUBEDI

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EDUCATION

California State University, Fullerton

BS Computer Science, Cybersecurity Concentration *GPA: 3.7*

Fullerton, CA

EXPERIENCE

Sandia National Laboratories

Computational Biology Intern

Livermore, CA

June 2025 - Present

- Developed and implemented a multiomics data pipeline to process complex datasets, including metabolomics, transcriptomics, phenotypic, and proteomics data, supporting predictive analytics for biomanufacturing and bioenergy research.
- Enhanced data security by implementing machine learning-based anomaly detection and data classification techniques (PCA, HDBSCAN) to identify and mitigate potential threats.
- Collaborated with researchers to implement secure storage, encryption, and transfer protocols for sensitive genomic data, improving regulatory compliance.
- Utilized GitLab for secure version control, implementing role-based access controls and repository monitoring.

Kaiser Permanente

Data Analytics and Automation Intern

Pasadena, CA

January 2024 - April 2024

- Streamlined ETL processes by integrating encryption mechanisms and auditing workflows to safeguard healthcare data during transfer and storage.
- Developed secure Tableau dashboards with role-based access controls and data masking to ensure compliance with HIPAA and GRC requirements.
- Automated data workflows, reducing manual vulnerabilities while maintaining robust access management and regulatory compliance.

Crescent Software, Inc.

Software Developer Intern

Signal Hill, CA

August 2023 - December 2023

- Developed and optimized modules for Sage 100 in Visual Basic and SQL for clients in food distribution and warehouse management, enhancing module efficiency and meeting client-specific requirements.
- Improved database security through optimized SQL queries and the implementation of access controls to prevent SQL injection attacks.
- Created custom reports using Crystal Reports to deliver tailored data solutions, improving data accessibility and reducing manual data handling.

SKILLS & RELEVANT COURSEWORK

Programming Languages: Python, Java, C++, JavaScript, SQL:

Frameworks & Tools: Django, Flask, Node.js, React Native, Alteryx, Tableau:

Cybersecurity Expertise: GRC, Data Encryption, Anomaly Detection, Secure API Development, Access Control:

Core Concepts: Secure System Design, HIPAA Compliance, Data Privacy, Network Security:

Cybersecurity courses: Introduction to Cybersecurity, Ethical Hacking, Network Security, Cryptography, Cyber Defense:

Computer Science Courses: Data Structures, Operating Systems, Computer Networks, Database Systems, A.I.:

CERTIFICATIONS & PROJECTS

CompTIA Security+

Gained foundational knowledge in network security, risk management, incident response, and cryptography, ensuring the ability to safeguard systems and data.

AWS Cloud Practitioner Essentials

Developed a strong understanding of AWS core services, cloud security, cost management, and solution design for scalable, secure cloud architectures.

Secure Health Data App *React Native, Django, AWS, Python*

Built a HIPAA-compliant health app with end-to-end encryption, integrating OAuth2 authentication and machine learning models for secure risk prediction.

Data Pipeline Project *Python, BeautifulSoup, Requests, SMTP, Pandas, Scikit-learn, AWS*

Developed an automated data pipeline for processing multi-omics datasets, leveraging machine learning for feature selection and classification, deployed on AWS.