

Ankit Biswal

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https://ankitbiswal547.github.io/personal_portfolio_website/

Network Security Engineer

Engineer with **3 years of industry experience as a Network Security Engineer at Cisco**, specializing in network security, production debugging, and AI-powered tooling. Strong in Python, C/C++, AWS, and distributed systems with solid foundations in data structures, operating systems, and computer networks.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Veer Surendra Sai University of Technology • GPA: 8.75 Burla - Odisha • Aug 2019 - May 2023

WORK EXPERIENCE

Cisco

Jan 2023 - Present

Technical Consulting Engineer • Full-time

Bangalore, India

- Resolved **500+ enterprise customer incidents** involving advanced firewall and network infrastructure issues, delivering rapid troubleshooting and root cause analysis across large-scale production environments.
- Diagnosed and remediated **complex networking and security issues** involving **Cisco FTD clusters, high availability (HA), BGP, OSPF, DHCP, and large-scale firewall deployments**, improving network reliability and security posture.
- Achieved **top-tier operational performance metrics**, maintaining one of the **highest First Day Final Resolution (FDFR)** and **5-Day Final Resolution (5DFR)** rates within the organization.
- Consistently delivered exceptional customer experience, earning **top customer satisfaction ratings** in the most recent quarter for technical expertise and efficient issue resolution.
- Collaborated with **cross-functional engineering and escalation teams** to debug complex networking failures, identify software defects, and contribute to long-term product improvements.
- Competed in a **Capture the Flag (CTF) challenge**, securing **2nd place overall** and demonstrating strong problem-solving, security analysis, and teamwork skills.

Technical Undergraduate Intern

Bangalore, India

- Completed the CCNA and DevNet certifications. Developed the AI Insights feature within 3 months, enhancing policy analysis with sub-features like Policy Analysis Optimizer and AI Assistant.
- Contributed to the **AI Assistance for CX Teams** project, enhancing the Optimizer platform to deliver deeper case insights, improve analysis accuracy, and streamline customer support workflows.

CERTIFICATIONS

Cisco Certified Devnet Associate

Cisco Certified Network Associate (CCNA)

Cisco Certified Specialist - Security Core (CCNP - SCOR)

PROJECTS

Serverless Cloud Definitions App

Mar 2026 – Present

- Developed a **serverless Cloud Dictionary application** enabling users to search for cloud-related terms and view their definitions through a web interface.
- Built a **scalable backend using AWS Lambda, API Gateway, and DynamoDB** to process API requests and store dictionary data efficiently.
- Deployed the **React frontend on AWS Amplify** and integrated it with backend APIs to enable seamless interaction between the user interface and cloud services.

CSV Data Processing Pipeline with Amazon S3, AWS Lambda, AWS Glue, and Amazon QuickSight

Mar 2026

- Built a serverless AWS data pipeline to process CSV files, automating data ingestion, transformation, and visualisation.
- CSV files uploaded to a raw **Amazon S3** bucket trigger **AWS Lambda** for preprocessing, followed by **AWS Glue ETL** into a final S3 bucket, where **Amazon QuickSight** generates interactive dashboards for visualisation.
- Services used – **Amazon S3, AWS Lambda, AWS Glue, QuickSight, IAM Role**

Automated AWS Receipt Processing System

Mar 2026

- Automated receipt processing using AWS services, extracting structured data from receipts and storing it efficiently for **record-keeping and auditing**, reducing manual effort and improving scalability.
- Services used: **Amazon S3, Amazon Textract, DynamoDB, Amazon SES, AWS Lambda, IAM Roles**

Fireconsole MCP server

Jun 2025 – Jun 2025

- Developed the Fireconsole MCP Server, automating API integration for Sherlock campaigns and streamlining Firepower device troubleshooting, significantly reducing manual effort.
- Enforced automated log query and analysis within the MCP Server, enhancing diagnostic efficiency and root cause analysis by eliminating manual data extraction.

QR Code Detection

Feb 2024 – Mar 2024

- Built a system to **detect and analyze QR codes from incoming emails** by integrating **Gmail APIs and webhooks** to automatically read and parse email data.
- Implemented **QR code detection using OpenCV**, applying image preprocessing, Canny edge detection, alignment, and pattern recognition to decode embedded data such as **URLs, IPs, and domains**.
- Integrated the **Cisco Talos Threat Response API** to check domain reputation and automated remediation by **deleting emails containing malicious URLs and reporting incidents to the SOC team**.

SKILLS

Network: TCP/IP, Network Security, Cisco ASA, Next Gen Firewall, BGP, OSPF, DNS, DHCP

Languages/Databases: C++, Python, JavaScript, MongoDB

Cloud/OS: AWS, ELB, EC2, IAM, Linux, S3, Lambda, SES, SNS, SQS, Textract, DynamoDB, AWS Glue, QuickSight

Coursework: Data Structures Algorithms, System Design, OOPS, DBMS

Frameworks/Tools: Node.js, React.js, Express.js