

SUDEEP DALAI

Associate Software Engineer, Watchguard Technologies | UPES

Phone: +91-7978027731 | Email: sudeep.dalai.5417@gmail.com | <https://www.linkedin.com/in/sudeepdalai>

EDUCATION:

Year(s)	Qualification	Board/ Department	University	Percentage / CGPA	Highlights
2017-21	B. Tech.	Computer Science	UPES, Dehradun	8.72 / 10	Rank 11/1000 in CSE Dept.
2016-17	AISSCE	CBSE	D.A.V Public School, CSPur	89.8%	A1 grade in 4/5 subjects
2014-15	SSE	CBSE	D.A.V Public School, CSPur	10 / 10	A1 grade in 5/5 subjects

PROFESSIONAL EXPERIENCE:

Watchguard Technologies

Associate Software Engineer (Jul 2021 – present)

Roles & Responsibilities:

- Part of backend dev team with **10+** members for a **\$25 mil+** annual revenue B2B endpoint security solution
- Developed **Cyber-Security** products for SMEs (B2B); **Tech Stack** - Python, AWS, Microsoft Active Directory
- Worked in an **AGILE** development model; Collaborating with **Product, QA, DevOPS** to deliver feature releases

Initiatives & Major outcomes:

- Implemented **Endpoint-Cloud Integration** enabling seamless endpoint-to-cloud data synchronization
- Developed a highly functional Streaming Data Processor, consuming **real-time data** streams of **5k+ users**
- Drafted a **Delta-Checker** algorithm enabling a **reduction of 40%** of user data synchronization time
- Designed **Infrastructure-as-Code** artifacts for AWS Resources leading to **80%+ reduction** in manual efforts
- Migrated containerized applications to **AWS Serverless**, saving an average of **\$100+ per application per month**
- Performed routine software testing and debugging; Resolved about **100+ update and bug reports**
- Proposed and **revamped dataflow** in applications, reducing the average synchronization time by **20+ seconds**
- Implemented an AWS instance scheduler, reducing the Virtual Machine uptime by **10+ hours** per instance per day
- Designed automated **Smoke and Regression Tests** using Newman CLI (Postman), Chai Assertion Library

Recognition:

- Received annual performance review rating of **5/5** for **2021-22** appraisal cycle; **16%+** salary hike received
- Recognized as **Star Performer (2/40 employees)** as part of BE team for Q4 of 2021-22; **100%** of PLI received

Watchguard Technologies

Software Engineering Intern (Jan 2021 – Jun 2021)

- Proposed and Developed a **Risk-Based Multi-Factor Authentication System** using Python, Flask, and AWS
- Created small-scale projects like **Web-Crawler, Log Data Processor** using Python and File-Handling concepts
- Designed APIs using **Flask Micro-Framework** and hosted them on AWS using μ WSGI application server
- Worked in a team-oriented environment covering all aspects of **Product Development Cycle**
- Worked closely with Dev team in the early phases of Feature Development in **Agile Development Model**
- Completed Courseware and Training involving **Python, AWS, Git, GitHub, Postman, Cybersecurity** & Best Practices

Projects Undertaken:

Risk-Based Multi-Factor Authentication System

Jan 2021 – May 2021

- Project on Multi-Factor Authentication System, authenticating users via **username, password, and OTP validation**
- Login session data collected & analysed to check for **safe zones**, determining the number of factors for authentication
- Final Deliverables:** Web Authentication Mechanism deployed using AWS Cognito, Lambda, DynamoDB and S3
- Language Used: **Python**; Concepts Used: AWS Serverless, JWT, S3 Static Hosting, Object Relational Mapping, OOPS

Labyrinth: A comparative analysis on various pathfinding algorithms

Sep 2019 – Dec 2019

- Advanced Data Structure & Algorithms** project on determining best algorithm for a Virtual Maze Scenario
- Efficiently implemented modern Graph Theory algorithms like **Prim's, BFS, Dijkstra's and A* algorithms**
- Final Deliverables:** Console application of maze creation and pathfinding, statistics comparison charts
- Language Used: **C**; Concepts Used: Data structures, Algorithms, Graph theory, OOPS

FeedCrawler: A customized web crawler for crawling latest feeds

Jan 2020 – Apr 2020

- Project on **crawling various websites** for **latest updates** on specified topics using Requests and BeautifulSoup4
- Final Deliverables:** Desktop Application for accessing latest news, videos, and research papers in a single platform
- Language Used: **Python**; Concepts Used: OOPS, Web Crawling, Debugging

Skills (Professional and Technical):

Technical Skills: Python, AWS Serverless (Lambda, DynamoDB, API Gateway), DocumentDB, MongoDB, Mongo Engine

Tools & Platforms: AWS CLI, Git, GitHub, PyCharm, VS Code, Postman, Newman, JIRA, Confluence, MS Office Suite