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Experience

Amazon Development Center Romania **Software Development Engineer II**

April '19 - present

June '23 – present – Amazon Privacy

Part of **Privacy org**, we create internal and external solutions to make Amazon compliant with user-privacy regulations. **We** are working on a new system through which Amazon must offer customers a mechanism that gives them or a third-party (3P) of their choice access to their personal data.

I'm currently building a service that hooks into the Login-with-Amazon process enhancing the existing flow to provide a customized experience. It guides the Amazon customers through all the steps they need to complete to record their consent to make their data available to the 3Ps of their choice. I've been involved in building the service from scratch (spinning up the service), from putting in place the AWS infrastructure to implementing core logic, testing, monitoring, latency optimizations, setting up DDOS protection.

Technologies: Java, SpringMVC, AWS (ELB/ALB, DynamoDB, CloudWatch, StepFunction), CDK, CloudFormation

August '22 - May '23 - Amazon One - Payments Team

The **team** owns the integration with multiple card networks (e.g. Visa, MasterCard, etc.) that enable the payment experience on Amazon One, a fast, convenient, contactless way for people to use their palm to make everyday activities like paying at a store.

While I was part of the team, I contributed with the following:

- Lead a project in which we collaborated with the largest card network in the USA to increase Amazon One coverage, thus making the service available for more card holders. The mechanisms we implemented facilitated the onboarding of one of the largest card issuers in USA, increasing the overall AmazonOne coverage with 20%. I coordinated 2 other engineers throughout the entire software development cycle.
- Owned the reporting infrastructures for our systems. Designed a data-export pipeline for depth analysis of customer behavior.
- Expanded the monitoring and reporting mechanisms to build insightful reports that measure different success metrics of the products. I have automated the manual steps the team previously performed to build the reports that are shared with external partners and leadership, reducing the effort from a couple of days to a few clicks.

Technologies: Java, Python, AWS (DynamoDb, S3, SQS, SNS, StepFunction, Lambda, API Gateway, IOT, etc.), CloudFormation

Jan '22 - August '22 - PARS Tech - Compliance Media Automation

The **team** was developing a self-service tool that allows non-tech users to build solutions to extract information from documents (without any ML knowledge required).

While I was part of the team, I contributed with the following:

- Built an orchestration solution, on top of AWS products (StepFunction, SageMaker, Lambda, S3), responsible for the training and evaluation of ML models.
- Decreased the duration of the workflows by 25-30% by optimizing the configurations of the training and evaluation steps.
- Migrated SageMaker Endpoint from Instance based to Serverless endpoints, thus reducing the model hosting costs from thousands to tens of dollars.
- Developed UI components for the portal where the customers build the models, were able to see their performance and apply them.

Technologies: Python, AWS (SageMaker, StepFunction, Lambda, S3), React, CDK

April 19' - Jan'22 PARS Tech - Compliance Operations Management Systems

The **team** developed a service for processing compliance related media files according to the compliance requirements as well as appeal requests from selling partners who challenged the requirements.

I was involved in designing and developing the orchestration solution that chains the steps required for document evaluation pipeline steps. We created a set of generic connectors which we reused across multiple workflows, hence reducing the time needed to onboard a new processing workflow.

The **team** developed a multi-tenant work-allocation solution used to distribute work efficiently to compliance associates.

While I was part of the team, I contributed with the following:

- Owned the onboarding of a new customer along with all the functionalities that had to be built (e.g. ingestion, allocation algorithm, etc.).
- Implemented a mechanism to have all the items exported to data-warehouse, regardless of the tenant, thus reducing the overall onboarding time by 1 week.
- Extracted a component, from a monolith system, into a stand-alone service (i.e. API, Storage, etc.) to facilitate better and independent scaling based on the needs. One of the major challenges arose from the high coupling with other components at the storage layer.

Technologies: Java, Spring MVC, Python, AngularJs, AWS (StepFunction, Lambda, NLB, ECS DynamoDb, Aurora MySql, DMS, S3, SQS, SNS, ApiGateway, ElasticSearch)

Bitdefender Romania

February '18 – April '19

Software Engineer / Junior Team Lead

Responsible for researching, designing and implementing efficient solutions for various internal systems. Automating different types of processes and developing new services and tools while also maintaining and extending currently existing ones.

I worked on building a logging ingestion and monitoring/alerting system.

Technologies: Python, Flask, Redis, PostgreSQL, MongoDB, React

Faculty of Computer Science Iasi
Teaching Assistant

October '18 – March '19

I was teaching Python programming to 3rd year students. I was involved in preparing laboratory exercises, exam subjects, teaching and grading assignments.

Amazon Development Center Romania
Software Development Engineer Intern

July '16 - October '16

I was a member of the Robot Detection Processing Team. The **team** is responsible with detecting various types of robots crawling Amazon's customer-facing websites. By categorizing hits, they enable other teams to improve their services availability, gather better business metrics and provide the best experience to customers.

My **internship project** involved making the robot detection system auto-configurable after a host had been replaced.

Technologies: Java, AWS (DynamoDb, S3, EC2)

Skills

- Java, Python, JavaScript, NodeJS, TypeScript
- HTML, CSS, React
- AWS, CDK (TypeScript), CloudFormation
- SQL, NoSQL (DynamoDB)
- Data Structures, Algorithms

Education

Alexandru Ioan Cuza University, Iasi
MSc Software Systems Engineering
Master Thesis: SMITH – **S**mart IoT **H**ub

2017 – 2019

Alexandru Ioan Cuza University, Iasi
BSc Computer Science
Bachelor Thesis: OPID – **O**nline **P**latform for IoT **D**eVICES

2014 – 2017