Cloudmend SRL
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Cloud Consultant

Summary

Experience:

- 5 years

Key Skills:

- Design and implementation of cloud infrastructure
- Software development in complex and large-scale projects

Specializations:

Python

Kubernetes

DevOps

Industry Experience:

- E-Commerce
- Financial services
- IT services

Technical Expertise

Programming Languages

- **Backend**: Python (3.x, FastAPI, Flask, Selenium, asyncio, pytest, Pydantic, NumPy, SciPy, pandas, sklearn, PyTorch, Tensforflow, Matplotlib, Jupyter, asyncio, Pydantic), JavaScript (Node.js, Express.js) Bash
- **Frontend**: JavaScript, TypeScript (React.js, Node.js)

Cloud & Infrastructure

- **AWS**: Elastic Compute Cloud (EC2), Simple Storage Service (S3), Elastic Container Service (ECS), Lambda, Virtual Private Cloud (VPC), Identity Access Management (IAM), API Gateway, Cognito, Elastic Container Registry (ECR), Elastic LoadBalancer (ELB), CloudWatch, DynamoDB, CodeDeploy, Secrets Manager, Elastic Kubernetes Service (EKS)
- **GCP**: GCP VPC, Google Cloud VPN
- **Azure**: Azure App Services, Azure Blob Storage, Azure Container Registry

DevOps Tooling

- Version Control: Git, GitHub, GitLab, BitBucket
- CI/CD: GitHub Actions, AWS CodePipeline, Jenkins, ArgoCD
- Containers: Docker, Docker Compose, Kubernetes, Openshift
- Infrastructure as Code: Terraform

Data Services & Databases

- SQL: MySQL, PostgreSQL
- NoSQL: MongoDB, DynamoDB
- ETL-Pipelines, MaraDevelopment of AI-based speech protocol software

Monitoring & Observability

- Grafana, Prometheus, CloudWatch
- Operating System
- Linux (Debian/Ubuntu) | MacOS | Windows

Project Management & Collaboration Tools

- Jira, Confluence, Teams, Slack, Scrum, Agile, Product Lifecycle Management,
- Use-Case Analysis

Other Tools

- RESTful APIs, GraphQL APIs
- Postman, VSCode, LaTeX
- Machine Learning (Nvidia Triton)

Certifications

- Linux Foundation CKAD - Certified Kubernetes Application Developer

Work History

Pexon Consulting - Senior Cloud Consultant

09/2021 - 12/2024
As a Senior Cloud Consultant for Pexon I took on projects relating to private cloud infrastructure and backend service development.

Consulting Project - Atruvia AG

Developed speech protocol software for the banking sector that uses AI models to convert calls or voice recordings to text.

Backend Developer
- Developed Python microservices using FastAPI and asyncio
- Created a Python based speech transcription API with FastAPI, PyTorch, and Onnxruntime
- Develop a summarization service based on Python (FastAPI) and Azure OpenAI Service for to generate summaries of conversation using AI models
- Expanding existing unit tests and end-to-end tests using Pytest and Postman
- Automatic generation of API documentation with FastAPI, Pydantic and SwaggerUI
- Development of OpenShift Jobs for automatic conversion between different AI models formats using Pyhton tensorrt, PyTorch, onnxruntime)
- Monitoring of CVEs and regular patching of Python and JavaScript dependencies
- Creating a proof of concept for the migration of microservices to Azure using Azure App Services, Azure Blob Storage, Azure Container Registry

DevOps Engineer
- Creating CI/CD Pipelines for multi-cluster deployment using Jenkins
- Developing a model evaluation pipelines using Python and Matplotlib to compare performance and accuracy of different AI models
- Automatic orchestration and deployment of infrastructure using OpenShit Templates
- Monitoring a variety of microservices using Graylog
- Asynchronous, scalable model inference using Nvidia Triton Inference Server
- Setting up alerting and monitoring using Prometheus and Grafana
- Creating concepts for deployments and hotfixes

Key Results
- Integrate speech transcription into an existing banking app
- Successfully piloted a standalone speech protocol software

Core Competencies
- Microservices on Kubernetes/Openshift
- API backend development using Python FastAPI

Technologies
- Kubernetes, Openshift, Docker
- DevOps:Git, CI/CD, Continuous Integration (CI), Continuous Deployment (CD), Docker, Helm
- Python: asyncio, FastAPI, scipy, tensorrt, onnxruntime, pytorch, matplotlib

Others
- Scrum, Agile

Consulting Project - Boreus

Provisioning of a private Kubernetes-based PaaS solution for a variety of microservices with a self-service system for database and cache instances

Platform Engineer
- Provided a PaaS solution based on Kubernetes for various microservices developed by different teams
- Automated provisioning of infrastructure following a "self-service" principle using SaltStack, GitLab Pipelines, and Jenkins
- Set up a Kubernetes metrics pipeline with Prometheus and Grafana
- Configured logging and monitoring for Kubernetes core components and Java Spring Boot services using Elasticsearch, Kibana, Logstash, and Beats
- Configured and debugged Kubernetes network setups with Calico, CoreDNS, and Nginx Ingress Controller
- Developed CI/CD processes with GitLab Pipelines and Jenkins
- Connected services to GCP Cloud Functions through GCP VPC and Google Cloud VPN in a hybrid-cloud solution

Key Results
- Successfully migrated multiple services to Kubernetes from a legacy environment
- Expanded logging and monitoring capabilities

Core Competencies
- Infrastructure as Code and orchestration with SaltStack, Kubernetes, and Jenkins
- Automation with Python/Bash

Technologies
- DevOps: SaltStack, Kubernetes, Helm, Jenkins, GitLab, Prometheus, Grafana, Elasticsearch, Calico, Nginx, GCP Cloud Functions
- Python, Bash

PetsDeli - Fullstack Developer

09/2020 - 09/2021

Development of flexible, scalable and cost effective micro services and infrastructure on the AWS Cloud in the ecommerce industry.

Fullstack Developer
- Built a CI/CD pipeline for an existing Next.js frontend server for faster deployments triggered pull requests
- Automated deployment processes by integrating GitHub Actions and AWS CodePipeline
- Automated testing and rollback in case of errors using AWS CodeBuild
- Ensured reliable storage of built images through AWS Elastic Container Registry
- Version controlled infrastructure deployments using AWS CloudFormation and Terraform
- Managed accounts and permissions following the "least privilege" principle using AWS IAM and AWS Cognito
- Operated a RESTful API based on Typescript for e-commerce backend processes based on Node.js, TypeScript, and Serverless.js
- Cost-efficient and flexible deployed on AWS Lambda with AWS API Gateway configuration
- Performed versioned deployments without downtime across multiple environments (dev, staging, prod) using Infrastructure as Code with CloudFormation and Terraform
- Set up ETL pipelines based on AWS DynamoDB and PostgresSQL with Python and Mara

Key Results
- Increased the number of supported document types by 40%
- Enabled the software's use in a productive application

Core Competencies
- Serverless cloud solutions
- REST APIs

Technologies
- Cloud: AWS CodeBuild, AWS CodePipeline, AWS Lambda, AWS API Gateway, Serverless, Microservices, Terraform
- DevOps: Continuous Integration (CI), Continuous Deployment (CD), Docker, GitHub, GitHub Actions
- JavaScript: Node.js, Serverless.js, Next.js
- ETL: Python, Mara

PetsDeli - Junior Fullstack Developer

As a junior fullstack developer I was responsible for automating business processes, building internal tools and supporting the development of RESTful APIs.

09/2019 - 08/2020
- Create unit test for an existing typescript codebase using the mocha framework
- Create tests and documentation for RESTful API endpoints using Postman and SwaggerUI
- Automated the export of sales data using Typescript, AWS Lambda and the Shopify API
- Maintained a RESTful API based on Typescript for e-commerce backend processes based on Node.js, TypeScript, and Serverless.js
- Automated the export of order data for shipping and toll purposes using using Typescript with Google and Shopify APIs
- Maintained a frontend for internal tools used by customer support and marketing based on Typescript, React and Express.js
- Created an internal tool for generating customer invoices as PDFs using AWS Lambda, Typescript and React
- Debugged Typescript code running on AWS Lambda using AWS Cloudwatch and AWS X-ray

Key Results
- Successful on and off boarding of employees
- Setup of company wide backups system
- Provided tools

Core Competencies
- RESTful API development and testing

Technologies
- Node.js, Typescript
- Postman, SwaggerUI

PetsDeli - Working Student - IT Administrator

As a working student in IT administration I was responsible for managing the offices IT infrastructure and the on/off-board of employees.

09/2018 - 08/2019
- On and off boarding of Employees Windows/MacOs machines and Google Workspace Account
- Management of e-mail accounts, aliases and groups in Google Workspace
- Installation and maintenance of office network consisting of JunpierOS based Firewalls/Switches and Asus endpoints
- Automate the processing of invoices using Python
- Manage the hardware inventory and perform basic hardware repair
- Setup of backups for Windows and Apple machines based on Synology NAS and Google Archive Storage

Key Results
- Successful on and off boarding of employees
- Setup of company wide backups system
- Installation and maintenance of office network

Core Competencies
- Windows & MacOs
- Google Workspace
- Networking

Technologies
- Google Workspace
- Juniper OS
- Synology NAS

Education

Freie Universität Berlin (2017-2019) - Bioinformatics

Language Skills

German: Native language
Romanian: Business fluent
English: Business fluent