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Cloud Engineer

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## Summary

### Experience:

- 6+ years

### Key Skills:

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

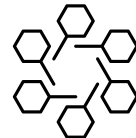
### Specializations:



Python



Kubernetes



DevOps

### Industry Experience:

- E-Commerce
- Financial services
- IT services

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# Technical Expertise

## Programming Languages

- Backend: Python (3.x, FastAPI, Flask, Selenium, asyncio, pytest, Pydantic, NumPy, SciPy, pandas, sklearn, PyTorch, Tensorflow, 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)
- Azure: Azure Kubernetes Service (AKS), Azure DevOps, Azure AI Services, Azure App Services, Azure Blob Storage, Azure Container Registry
- GCP: GCP VPC, Google Cloud VPN

## DevOps Tooling

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

## Data Services & Databases

- SQL: MySQL, PostgreSQL
- NoSQL: MongoDB, DynamoDB
- Kafka
- ETL-Pipelines, Mara

## Monitoring & Observability

- Grafana, Prometheus, CloudWatch
- Elasticsearch, Kibana, Logstash, Beats

## Networking:

- Calico, Istio, CoreDNS
- Nginx, Nginx Ingress Controller

## Operating Systems

- 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 Experience

### Pexon Consulting - Senior Cloud Consultant

09/2021 - 12/2024

Led AI-driven cloud solutions, optimizing microservices, CI/CD, and security for banking and enterprise clients, enhancing automation and scalability.

#### Consulting Project - Atruvia AG

Developed an AI-powered speech transcription service, reducing financial consultants' documentation time and improving workflow automation.

#### Backend Developer

- Engineered microservices for speech transcription and conversation summarization using Python, FastAPI, and Azure AI Services, ensuring modular, cost-effective, and scalable architecture
- Piloted a speech-transcription app design for bankers and financial consultants, using our APIs and a frontend based on Angular and Next.js
- Developed model evaluation pipelines using Python, PyTest and Matplotlib, facilitating data-driven comparisons of AI model performance and accuracy
- Managed multi-stage deployments across multiple clusters using OpenShift Templates, Helm and Jenkins
- Enhanced security compliance by establishing a proactive CVE monitoring and mitigation strategy, ensuring regulatory adherence
- Migrated python services from flask to FastAPI to provide native async support, request validation and automatic generation of documentations
- Developed a reproducible AI model deployment workflow using Jenkins, OpenShift Jobs, and Git-LFS, streamlining model lifecycle management
- Architected a proof-of-concept for migrating to Azure Kubernetes Service (AKS), leveraging Azure DevOps and Azure Blob Storage for seamless deployment and scalability

#### DevOps Engineer

- Designed and maintained CI/CD pipelines for automated multi-cluster deployments using Jenkins, improving deployment efficiency and reliability
- Automated infrastructure orchestration and deployments using OpenShift Templates, Helm and Jenkins, minimizing manual intervention and improving operational consistency
- Optimized AI inference workloads by deploying asynchronous, scalable model inference using Nvidia Triton Inference Server, reducing latency and increasing throughput
- Established comprehensive alerting and monitoring using Prometheus and Grafana, enhancing system observability in addition to ensuring proactive issue detection and response
- Defined deployment and hotfix strategies to minimize service disruptions, ensuring seamless integration of updates and fixes

## **Key Results**

- Enabled seamless speech transcription integration into an existing banking application, enhancing workflow efficiency for financial consultants
- Developed and piloted a standalone speech transcription tool, allowing bankers to generate automated conversation summaries and documentation with AI-powered insights
- Optimized AI model deployment and inference, reducing latency and improving response times for speech-to-text processing

## **Core Competencies**

- AI-Powered Microservices
- Cloud & DevOps Automation
- Monitoring & Performance Optimization

## **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

Architected a private Kubernetes-based PaaS, enabling self-service microservice deployment and enhancing scalability for enterprise applications.

### Platform Engineer

- Developed a private Kubernetes-based PaaS solution, enabling teams to deploy and manage microservices independently with a self-service system for database and cache provisioning
- Automated provisioning of Kafka and Elasticsearch Clusters using SaltStack, GitLab Pipelines, and Jenkins, significantly reducing manual setup time and operational overhead
- Designed a scalable Kubernetes metrics pipeline with Prometheus and Grafana, improving system observability and performance monitoring
- Implemented Istio as a service mesh to enforce fine-grained access control with mTLS authentication while capturing detailed networking metrics to enhance observability and performance monitoring
- Designed a scalable log aggregation pipeline using Kafka, streaming application and infrastructure logs to Elasticsearch, Logstash, and Kibana (ELK stack) for real-time observability.
- Optimized Kubernetes networking by configuring and debugging Calico, CoreDNS, Istio and Nginx Ingress Controller, enhancing cluster communication and security
- Developed and fine-tuned CI/CD pipelines in GitLab and Jenkins, ensuring automated, efficient, and reliable software deployments
- Established a secure hybrid-cloud infrastructure by connecting on-premise services to GCP Cloud Functions through GCP VPC and Google Cloud VPN
- Supported customers in migrating their services from legacy systems to the Kubernetes PaaS, ensuring a smooth and reliable transition

### Key Results

- Successfully migrated multiple microservices from a legacy environment to Kubernetes, improving scalability and maintainability
- Strengthened system reliability with enhanced logging and monitoring, leading to faster troubleshooting and improved uptime

### 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

### Others

- Scrum, Agile

# PetsDeli - Fullstack Developer

09/2020 - 09/2021

Built and automated a scalable AWS-based e-commerce platform, reducing deployment time and enabling real-time business analytics.

- Developed flexible, scalable, and cost-efficient microservices on AWS, enhancing the e-commerce platform's reliability and performance
- Built a CI/CD pipeline for the Next.js frontend servers, reducing deployment time and enabling automated, pull-request-triggered releases
- Automated deployments using GitHub Actions, AWS CodeBuild and AWS CodePipeline, implementing automated testing and rollback mechanisms to minimize manual intervention and deployment errors
- Optimized infrastructure management by leveraging AWS CloudFormation and Terraform for version-controlled deployments and provisioning of Infrastructure
- Secured user authentication and authorization by enforcing the least privilege principle with AWS IAM and AWS Cognito
- Operated and maintained a RESTful API for e-commerce backend processes, using Node.js, TypeScript, and Serverless.js
- Reduced costs and improved scalability by deploying API services on AWS Lambda with AWS API Gateway
- Designed and deployed ETL pipelines using AWS DynamoDB, PostgreSQL, Python and Mara ensuring efficient data processing and analytics
- Improved the checkout flow by integrating multiple payment providers using OAuth

## Key Results

- Accelerated deployment cycles with automated CI/CD pipelines
- Enabled real-time business insights by setting up ETL pipelines for BI analysis
- Enhanced platform stability by implementing robust API and infrastructure solutions

## Core Competencies

- Serverless cloud solutions
- REST APIs
- ETL-Pipelines

## 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

09/2018 - 08/2020

Developed RESTful APIs, automated business processes, and built internal tools, improving operational efficiency and system reliability.

- Developed and maintained RESTful APIs using Node.js and TypeScript, supporting critical e-commerce backend operations
- Automated business processes by integrating third-party services such as Shopify and Google APIs, reducing manual workload and improving efficiency
- Implemented unit and integration tests for existing TypeScript codebases using Mocha, increasing test coverage and system reliability
- Enhanced API documentation by creating and maintaining endpoint specifications with Postman and SwaggerUI, improving developer onboarding and collaboration.
- Developed internal tools in React.js to support customer support and marketing teams, improving operational efficiency
- Built an automated invoice generation system using AWS Lambda, React, and TypeScript, reducing manual invoicing efforts
- Debugged and optimized AWS Lambda functions with CloudWatch and X-Ray, improving system performance and troubleshooting capabilities

## Key Results

- Increased operational efficiency by automating data exports and invoicing processes
- Improved system reliability through enhanced testing and API documentation
- Empowered non-technical teams with custom-built internal tools for streamlined workflows

## Core Competencies

- RESTful API development and testing

## Technologies

- Node.js, Typescript
- Postman, SwaggerUI

## Others

- Scrum, Agile

# PetsDeli - Working Student - IT Administrator

09/2017 - 08/2018

Managed IT infrastructure, employee onboarding, and network administration, ensuring seamless operations and security.

- Managed employee onboarding and offboarding by configuring Windows/macOS devices and Google Workspace accounts, ensuring smooth transitions
- Administered email accounts, aliases, and access permissions within Google Workspace, maintaining secure and organized communication
- Installed and maintained the office network, including JuniperOS-based firewalls, switches, and endpoint devices
- Automated invoice processing using Python, reducing manual data entry workload
- Monitored and maintained company hardware inventory, performing basic troubleshooting and repairs when needed
- Set up a backup system for Windows and Mac devices using 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
- Python

## Others

- Scrum, Agile

## Education

Freie Universität Berlin (2016-2018) - Bioinformatics

## Language Skills

German: Native language

Romanian: Business fluent

English: Business fluent