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Andreas Schaler

Full-Stack, DevOps, ML, Software Engineer

Experience | Full Stack, Cloud, DevOps, MLOps

Currently, I am a Software Engineer and member of the DevSecOps team at Nimbis Services Trusted Microelectronics Partner where I have a tenure of two years. My responsibilities revolve around the full software lifecycle. They range from planning and coordination of work items, to solution design, diagramming and documentation, implementation execution, iteration and testing, and deployment. Additionally, I perform troubleshooting and implement bug fixes, integration of services, updating and maintenance fixes, reverse engineering and augmentation oriented work. I offer strong conceptualization of System Design, process flow, and the ability to achieve project goals on time in a team environment and as a solo contributor. I maintain a nimble mindset and iterate on implementations where solutions elicit feedback. My colleagues would describe me as present, attentive, and reliable. They would report confidence in my contributions, I facilitate an enjoyable collaborative environment, manage organization, and articulate clearly.

Notable 2023-24 Contributions |

- **Stateless REST API NN Inference for NER token extraction utilizing a DeBerta LLM**
- **Management features in an internal asynchronous protocol workflow system for high remote resource utilization**
- **Influence and contribute largely to adoption of containerization and leveraging of Kubernetes in many projects to support local development workflows, cloud deployment, and CI/CD.**
- **Built internal Vue component library and contributed features to multiple SPA based Web applications**
- **Further the adoption of Domain Driven Design backend service implements leveraging Django**
- **Produced multiple application architectures and cloud based solutions to achieve project goals**

Personal Project Work |

- **UEFI Multiboot System:** The motivation was to obtain practical experience with UEFI based systems, installation of a Linux distribution on native hardware where KVM could be utilized to host a DragonFly BSD guest. The solution I ended up implementing was to leverage the rEFInd boot manager project where management of the bootloader selection, and by extension kernel initialization was made possible.

Employment |

Nimbis Services — Trusted EDA Cloud Provider **DevSecOps Team, Software Mid Engineer**

Education |

Kent State University, Bachelors — Computer Science (CS) **Data Engineering Concentration**

Competencies |

General purpose programming languages -
- Python, C++

Domain specific languages -
- Javascript, Typescript

Command languages -
- Bash, TcL

Web SPA frameworks -
- Vue, React

Container technologies -
- Docker, Podman, Kubernetes, Kustomize, Helm, Skaffold

Cloud -
- AWS (familiarity with many services), Azure

IAC -
- Terraform, Cloud Formation

Python Service frameworks -
- Django, Django REST Framework, Flask

Numerical Python Stack -
- Jupyter Notebooks, Pandas, Scikit Learn

ML libraries -
- Pytorch, Transformers and the HF ecosystem

Deep Learning Environments -
- KubeFlow, MLflow

Git systems -
- Gitlab, Github, GIttea

Automation -
- Ansible, GItlab CI/CD

Miscellaneous to support the above -
- Linux, Systemd, Pydantic, Open API Spec., RabbitMQ, Vite, More Python Libs., Markdown, Json, YAM

Self Study |

Stanford Engineering Online -

CS224U Natural Language Understanding CS224N Natural Language Processing with Deep Learning

MIT Open Course Work (OCW) -

MIT 6.0172 Performance Engineering of Software Systems, MIT 6.0006 Introduction to Algorithms