András Sallai

Software Developer

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About me

Keen software developer interested in programming languages, systems/low-level programming, security, cloud tech and hardware.

Work Experience

Dec. 2020 - Present | Senior Software Engineer - DMG-MORI Heitec
Devops: Docker, Kubernetes, Microsoft Azure, Bash... too much Bash. Working on automating the container-based deployments of DMG-MORI's production planning software suite. Both on-prem (docker-compose) and in cloud (AKS).

Aug. 2020 – Dec. 2020 | Software Developer - Morgan Stanley
Internal web apps: Angular (Typescript), Python

Jul. 2018 – Jul. 2020 | Software Engineer – Evosoft
In a DevOps role, working on Siemens's cloud-based IoT platform.
- AWS, some Azure: maintaining, optimizing, debugging cloud infrastructure
- Python, some Go: security compliance checks for cloud resources and IaC modules
- Containers, Docker, Kubernetes: maintenance of container images, designing deployment pipelines for containerized services, working on transitioning from ECS to EKS
- Terraform: IaC modules, cloud resource deployments
- Linux, Bash, Git, GitLab: CI/CD pipelines, Linux image hardening

Apr. 2018 – Jun. 2018 | Junior Software Engineer – Balabit
Platform team: worked on build tools for a custom Ubuntu / Debian based OS. Used mostly python and Unix tools, learned a lot about Linux internals, containerization (Docker), Debian packaging and CI with Jenkins. This was a major turning point in my software career: going from web app development to systems programming.

Jul. 2015 – Mar. 2018 | Web Application Developer – Bioscreen Ltd.
I rejoined Bioscreen after a successful funding round.
Backend (php7 / yii, mysql): extending and tweaking our "form engine", a platform for managing complex custom forms, data

import and export modules and developing interfaces for external Hospital Information Systems (along HL7, DICOM protocols, REST APIs).
Frontend (mostly pure JS): rewrote a large legacy codebase that implemented complex behaviors like on-the-fly recalculations combined with dependency chains, validation of custom input types, wysiwyg form creation.
Ops: managed linux-based servers and deployments at various hospitals and healthcare centers.

Mar. 2015 – Jul. 2015 **| JavaScript developer – The Planorama Group**
Retail store management application. Half of the dev team in Budapest, the other half in Paris. Microservice architecture based on Node.js. Worked on both the frontend (custom JS framework, Ember.js) and the backend (Express).
Keywords: Javascript, Node.js, MongoDB

Oct. 2013 – Mar. 2015 **| Web Application Developer – Bioscreen Ltd**
Medical data management application built around the Yii framework: php, javascript, mysql, linux.
- backend: data import from xml, xls / csv or hl7 using a graphical interface as well as an HTTP API, features related to dynamic HTML form creation (more efficient storage, rendering)
- frontend: chunked file uploads, UI development
- refactoring, cleaning up legacy parts
- interfacing healthcare service providers with our application's database

Projects

Oct. 2012 – Sept. 2014 **| Freelance web developer**
After a couple of months of intensive self-learning I started working on simple web development projects for individuals and small businesses. Worked on various applications, websites, microsites with php / js / html / css.

Sept. 2019 - present | **PACS**
Together with a former colleague and good friend we built a Picture Archiving and Communications System (PACS) for medical imaging based on open source software. The main components are an Orthanc server (DICOM), a custom worklist management app and an image viewer based on OHIF's Viewer. Docker, Linux, Bash, Go, Elm.

Languages

I'm a native **Hungarian** speaker and fluent in **English**. I took an intermediate level (C) exam when I was 18 and have been using it every day since my childhood. I also studied **German** in high school for 4 years.

Education

2016 – 2021
Óbuda University – BSc, Computer Science and Software Engineering
Thesis: A survey of type systems in programming languages

2010 – 2015
Szent István University – BA, Economics / Human Resource Management
Thesis: Analysis of organizational culture based on press releases

2007- 2009
Semmelweis University – Physical Education
Withdrawn in the 3rd semester