
Alex K. Sizov - Full Stack Developer

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Work Experience

Landmark Computer Labs - Intern

JANUARY 2020 - PRESENT

Used advanced data recovery and forensics techniques to rescue corrupted and damaged data from Windows EDB and ESE Databases, Hard Drives, and non-windows OSes.

Strella Biotechnology - Engineering Intern

JUNE 2020 - PRESENT

Automated the firmware and database deployment of 500+ Atmel ARM LoRa devices using Linux, bash, and BOSSA to eliminate systematic failures.

Soldered, conformal coated, and modified product hardware to withstand strenuous environmental conditions.

Adjusted product dashboard to help customers and employees make data-driven decisions.

Android App Developer - Agile Developer

JUNE 2016 - PRESENT

Designed and published a blackbox-like audio recorder for Android designed for people facing harassment, discrimination, or abuse at home or in the workplace. (<https://loopbox.io>)

Managed a Kanban board on Jira to aid development, in addition to git for version control.

EzLung Medical Ventilator - Co-Founder

JANUARY 2020 - JULY 2020

Developed software for a quickly scalable medical ventilator to help COVID-19 recovery.

Used C++ and GCC to develop realtime firmware for Atmel 8-bit AVR microcontrollers.

Used Java and Kotlin to develop an Android frontend for the ventilator.

Developed cybersecurity component for FDA EUA compliance.

Developed testing partnership with ER Dr. Warrington at Queen's Medical Center in Hawaii.

Crafted promotional videos using Adobe Premiere, and made a website for EzLung. (ezlung.com)

Drive Square Simulation - Game/Simulation Developer

JANUARY 2018 - JULY 2020

Designed driving scenarios for Windows and WebGL using Unity 3D, C#, Blender, and 3DS Max.

Made promotional videos using Adobe Photoshop, Premiere, and GIMP.

Skills

Virtualization and Containerization - Low-Level Programmer

Modified Linux KVM kernel module so Intel VMX Extensions handle Virtual Machine RDTSC exits.

Forked open source git repo [WxWabbitemu](#) and improved the UI for end users.

CI/CD and Deployment - DevOps Engineer

Used GitHub Actions to deploy a C# .Net Web App to Microsoft Azure using a Deploy Pipeline.

Wrote several deployment flows for EzLung, Strella Biotechnology, and other personal projects.

Languages

Java, C, C++, C#,
Python, Ruby, JS,
HTML, CSS, ASM

Frameworks

Tensorflow, Node,
React, Electron, Rails,
Docker, Angular

Operating Systems

Debian, Redhat &
Arch Linux, Windows,
and Android

Software and IDEs

Android Studio,
INTELIJ, Visual Studio,
Jira, QEMU