George Kaplan

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Summary

Technologies: Rust, JavaScript / TypeScript, React, Dart / Flutter, Docker, Serverless

Interests: Music technology, DSP, generative art, user experience and accessibility, parsers and compilers

Experience

Elektron Music Machines

Rust Audio Developer — May 2022 — present

▷ Building a development platform for the next generation of hardware music devices from Elektron, with a modern technical stack (*Rust, Protobuf, RocksDB*) and primary design goals of portability and flexibility.

▷ Prototyping the initial products on the new platform, integrating both legacy IP and new concepts to create a unique and compelling user experience. Knowledge gathered in this process is then used to iterate on the design of the underlying infrastructure.

Fearless Solutions

Software Engineer 2 — March 2021 — April 2022

▷ Adopted and expanded a prototype application built with *React* and the *Serverless Framework* into a production-ready state, and delivered it to users on time.

▷ Spearheaded an effort among technical personnel to improve code quality, test coverage, and user accessibility, leading to a significant decrease in defects and regressions pushed into the staging environment.

▷ Collaborated with security and operations teams to address findings from a pre-deployment audit. All findings were eliminated well in advance of the subsequent audit, and the deployment to production was able to proceed without incident.

Visionist Incorporated

Engineer 3 — August 2018 — February 2021

▷ Maintained and enhanced an audio processing and analytics service, with the API and administrative UI implemented using *Phoenix (Elixir)* and the audio DSP implemented in *Rust*.

▷ Scaled a suite of applications for real-time geographic data analysis up from prototype to production, focusing on performance and reliability. Improved communication between the development team and our user base to implement a faster and more robust feedback loop.

Nu-Tek Precision Optical Corporation

Staff Engineer 1 — May 2016 — August 2018

▷ Developed a 2D signal processing toolbox for MATLAB, for use in a specialized manufacturing environment. Supported a variety of ETL formats and domain-specific manipulations. Results could be visualized quickly, formatted with custom report templates using LaTeX, or exported as program data for CNC correction processes.

Education

University of Maryland, College Park

Bachelor's of Science in Physical Sciences — 2012 — 2016

▷ Concentrations in Atmospheric and Oceanic Science, Chemistry, and Geology