SEAN LEVY AKA ATTILA

Celestún, Yucatán, MÉXICO

J +52 999 276 3031 ■ attila@haqistan.net • codeberg.org/attila • github.com/haqistan

Headline Summary

- Unix expert for over 30 years: C, ksh/bash, POSIX, Unix Systems Programming at every level
- Deep in relational databases, specifically PostgreSQL
- Decades of experience with Python, Perl, JavaScript and the web in general
- Last decade spent working at the intersection of privacy and infosec, including substantial contributions to open-source, NGO-based work and proprietary systems
- 20 years at Carnegie Mellon University on research projects in engineering design/support, OOP, filesystems/networked storage, databases, graph visualization, expert systems

Experience

Co-Founder clearops.io

October 2017 - March 2024

New York, NY (Remote)

- Built internet-scale data collection system focused on privacy and infosec using PostgreSQL, Perl, Python and Selenium. Collected hundreds of millions of HTTP transactions over hundreds of thousands of domains to analyze privacy footprint, 3rd party exposure for compliance with GDPR, CCPA, etc.
- Used PL/pgSQL to implement data analysis engine inside the database
- Full web interface with completion-based UX to visualize and search domain privacy/infosec reports derived from the raw data
- Implemented JWT-based authentication system that integrated seamlessly with AWS IAM

Part-time contractor November 2015 - 2017

Manicube.com

New York, Connecticut (Remote)

- Managed cloud infrastructure and DevOps pipeline for a small startup using both AWS Web Console and open-source command-line tools
- Aided in debugging, performance analysis and implementation of new feaures in Python codebase using Django, SQLAlchemy, JavaScript
- Implemented Nagios across all functional units, with custom probes and the modern Nagios interface

Open Source Work

OpenBSD. Tor Project

September 2014 - 2017

Remote

- Ported Tor Browser to OpenBSD
- · Wrote driver for the Araneus Alea II USB TRNG, got it accepted into tree as an outside contributor
- Ported tests from NetBSD to OpenBSD for some userspace programs that lacked tests

Software Engineer

kWantera, LLC

July 2012 - August 2014

Pittsburgh, PA, USA (Remote)

- Architected and implemented client-facing, chart-oriented portal, using d3 and nvd3 in the client and Python, Flask, WebSockets, MongoDB and MySQL on the back end
- Designed and implemented back-end data collection system that encompassed the entire North American power grid, on the one hand, and electricity demand data for specific clients using PyMODBUS on the other
- Supported a team of statisticians using Rlang to implement industry-leading energy market arbitrage strategies which the company acted upon

Chief Architect January 2007 - June 2012

Lutix LLC

- Fully Remote Team: CDMX, Celestún, San Jose, Seattle, Salt Lake City, Helsinki
- Google Maps for Finance: architected and implemented a semantically-aware graph database and analytical back end with P2P-oriented API using JSON over Protocol Buffers. Core written in ANSI C. frontend in JavaScript. Finance/Law ontology developed by experts to analyze and visualize all relationships between public companies
- Delivered high performance graph algorithm implementations that scaled horizontally and vertically, and continuous access to up-to-date data extracted from Bloomberg and Thompson/Reuters in real time (special access licenses)