

Steven Karas

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OBJECTIVE

To push the boundaries of computer science with a focus on distributed systems, programming language theory, and practical applications of computer science to business processes.

COMPUTER SKILLS

Languages: x86/ARM Assembly, Bash, C/C++, Java, L^AT_EX, Make, Python, Ruby, SQL

Frameworks: Android, Rails

Technologies: JNI, GDB, Numpy, Docker

Operating Systems: Linux, MacOS X, Android

LANGUAGES SPOKEN

English: mother tongue

Hebrew: fluent

EXPERIENCE

Meta Development, Tel Aviv, Israel June 2022 - Present
Software Engineer

Amazon Development, Tel Aviv, Israel February 2021 - May 2022
Alexa Shopping Proactive Reorder Channels team
Software Engineer

- Lead migration of server fleet OS
- Team point of contact for peak retail season and events for 2021
- Collaborated with other teams to build new customer experiences using reorder predictions
- Added new features to prevent usage of stale or otherwise invalid reorder predictions

Cogito Systems, Tel Aviv, Israel October 2015 - November 2020
Algotrading fund
Senior Software Engineer

- Maintained a large codebase (~250k SLOC) and built new features
- Scaled from one trading system on one host to many multi-region systems
- Improved execution cycle frequency by orders of magnitude (5s to 50ms)
- Reduced trading cycle execution pipeline latency by order of magnitude (200ms to 20ms)
- Interviewed new candidates for software engineering positions and trained new employees

PSIE, Israel October 2013 - May 2015
Hebrew University research project
A search engine of open government data from all levels of government all around the world
Technical Lead

- Built distributed, scalable crawler for common catalog systems (CKAN, RSS, data.json, etc)
- Built a search engine on top of the collected metadata of all open data
- Coordinated all technical efforts for the project
- Managed the technical budget for the project
- Assisted transition from academic project to commercial VC funded startup called Apertio
- Co-invented three patent applications (two abandoned at provisional patent stage, one at application stage)

Trusteer, Israel
Mobile R&D team - Anti-financial malware security systems
Software Engineer

July 2012 - October 2013

- Maintained existing Android and iOS projects; researched and developed new features for those products
- Led an overhaul of the build system used by the agent teams, shortening build times from 10 minutes on average to 30 seconds on average
- Spearheaded creating a cross-referencing source code browser for the combined agent libraries and projects; set up continuous integration for the mobile projects
- Created a new product that required intimate knowledge of low level aspects of Android, and touching on all application component types

Interdisciplinary Center of Herzliyah, Israel
Introduction to Computer Science, taught by Prof. Shimon Schocken
Teaching Assistant

Fall 2009 - 2012

- Taught four weekly recitation sections for 110 students
- Wrote weekly exercises, midterm and final exams
- Graded midterm and final exams

Homework Checker and Supertutor

- Lead team of 4 graders, assigned and led weekly lab sections
- Graded weekly assignments of 25 students

Israel Defense Forces, Israel
Network Administrator and IT Manager

2005 - 2008

- Provided on and offsite technical support to a large (500+) user base with a small but highly professional team.

EDUCATION

M.Sc., Computer Science
Interdisciplinary Center of Herzliyah, Israel; 2016 - 2020

B.A., Computer Science
Interdisciplinary Center of Herzliyah, Israel; 2008 - 2011

CITIZENSHIP

American, Israeli

MILITARY SERVICE

Sergeant 2005 - 2008
Honorable discharge, Israeli Defense Forces

PATENTS

US20180276304A1 WO2017051420A1
Advanced computer implementation for crawling and/or detecting related electronically catalogued data using improved metadata processing

CODE SAMPLES

Github: <http://github.com/stevenkaras>
Additional samples available on request

RECOMMENDATIONS

Provided upon request