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, LaTeX, 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   July 2012 - October 2013
Mobile R&D team - Anti-financial malware security systems
Software Engineer

- 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   Fall 2009 - 2012
Introduction to Computer Science, taught by Prof. Shimon Schocken
Teaching Assistant

- 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   2005 - 2008
Network Administrator and IT Manager

- 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

CODE SAMPLES

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

RECOMMENDATIONS

Provided upon request