Gil Henkin | Software Engineer

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Israel

Summary
Enthusiastic software engineer with a deep-rooted passion for software development, research, mathematics and cryptography. Eager to thrive in a dynamic and innovative work environment while making meaningful contributions.

University of Haifa — ***Homomorphic Encryption Developer & Researcher*** — ***2020-2021*** — ***1 year***

- Developed the 'Secure Batch Retrieval (SBR)' protocol to demonstrate its efficacy in safeguarding data confidentiality through Homomorphic Encryption.
- Solely managed the programming and debugging of an extensive 8,000-line C++ codebase for the SBR protocol.
- Independently designed and implemented an automated benchmark analysis tool with a user-friendly interface to assess the SBR protocol's efficiency.
- Utilized Amazon Web Services (AWS) for executing algorithm benchmarks, generating data for subsequent analysis.
- This project, a significant component of my master's degree, was conducted with guidance from my research supervisor and served as the core of my thesis.

Intel — ***Software Engineer*** — ***2018-2020*** — ***2 years***

- Developed 10 automation scripts using Python, Perl, and Bash, to simplify daily tasks like SSH key authentication, Git version control, email automation, and system monitoring.
- Assisted in resolving more than 20 support tickets, providing effective troubleshooting and clear communication, particularly regarding Git, PyCharm, and SSH authentication, which helped minimize work disruptions.
- Contributed to a collaborative environment by integrating, installing, and supporting the PyCharm IDE within the department's ecosystem, serving a team of 200 software engineers. This effort streamlined our workflow and enhanced cooperation among team members.

Israel Defense Forces (IDF) — ***Web Developer*** — ***2017-2018*** — ***1 year***

- Contributed to the development and enhancement of the IDF Tzayad system, a cutting-edge command and control system used by the Israel Defense Forces (IDF) for artillery coordination and precision fire support.
- Engaged in continuous learning and adaptation to meet the evolving needs and requirements of the Tzayad system.
- Designed, developed, and maintained the web-based components of the IDF Tzayad system using modern technologies, including React, Flask, Sass, Bootstrap, and Postgres.
- Implemented responsive design practices and user-friendly interfaces, enabling efficient access and control of critical data.

Education	University of Haifa	M.S. computer science (in progress)	2018 - Present
	University of Haifa	B.Sc. computer science	2012 – 2016
Courses	IBM (coursera online)	Exploratory Data Analysis for Machine Learning(Certificate)	2023
Research	University of Haifa	Factors Influencing the Adoption of Advanced Cryptographic Techniques for Data Protection of Patient Medical Records	2022
	University of Haifa	Secure Batch Retrieval - A protocol for data retrieval utilizing Homomorphic Encryption	2020-Present
Publications	Factors Influencing the Adoption of Advanced Cryptographic Techniques for Data Protection of Patient Medical Records (Article)		

Skills

Web Development	**Algorithm Development**	**Algorithms and Computational Theory**	**DevOps**
Flask, Django	C++	Homomorphic Encryption	Linux
React	Python	Multi Party Computation	TeamCity
Tailwind Css, Sass	1. Pandas, NumPy	Block Chain	Amazon Web Services (AWS)
Firebase, Heroku	2. matplotlib, seaborn	Hash Functions	Bash
PostgreSQL, SQLite		Probabilistic Algorithms	git-python

Interpersonal	Communicative, Collaborative, Problem-solver, Adaptable, Team-player.
Languages	English (fluent reading/writing), Hebrew (mother tongue), Russian (mother tongue).

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