

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.

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| University of Haifa | Homomorphic Encryption Developer & Researcher | 2020-2021 | 1 year |
| <ul style="list-style-type: none">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. | | | |

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|---|--------------------------|------------------|----------------|
| Intel | Software Engineer | 2018-2020 | 2 years |
| <ul style="list-style-type: none">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. | | | |

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| Israeli Defence Forces (IDF) | Web Developer | 2017-2018 | 1 year |
| <ul style="list-style-type: none">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. | | | |

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| 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 |
| | Flask, Django | C++ | Linux |
| | React | Python | Homomorphic Encryption |
| | Tailwind Css, Sass | 1. Pandas, NumPy | Multi Party Computation |
| | Firebase, Heroku | 2. matplotlib, seaborn | Block Chain |
| | PostgreSQL, SQLite | | Hash Functions |
| | | | Probabilistic Algorithms |
| | | | git-python |
| Interpersonal | Communicative, Collaborative, Problem-solver, Adaptable, Team-player. | | |
| Volunteer | Volunteered in an ecological farm engaging in sustainable agriculture and building | | |
| Languages | English (fluent reading/writing), Hebrew (mother tongue), Russian (mother tongue). | | |