NISAN HARAMATI

Distributed Systems & Data Engineering

EDUCATION

Bachelor of Science, Physics (2012)
The University of British Columbia / UBC

CONTACT

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I build and maintain large scale data systems in the real-time processing space, with a focus on resilience, data quality, correctness, and mathematical approaches.

With a strong record of successful projects, I thrive in fast-paced, results-driven environments that involve:

-Working with both internal and external clients and users to identify project needs
-Taking projects from high level objectives to completion using a deep analytical approach
-Creating stable products that perform well, provide value throughout their lifetime, are easy to work with, and are a breeze to maintain

Beyond programming and data systems, I am interested in physics, mathematics, cooking, reading, outdoor activities, and being active in my local communities (tech and non-tech alike).

TECHNICAL SKILLS

Programming Languages: C, C#/.NET, C++, Clojure, Groovy, Java, JavaScript, Kotlin, Ponylang, Python, R, Ruby, Scala, Shell

Databases: Cassandra, ElasticSearch, InfluxDB, MSSQL, noSQL, PostgreSQL, RDS, Redis, SQL

Tools and services: AWS, Chef, Docker, Druid, git, Hadoop, SVN, Continuous Integration, Continuous Deployment, IIS, Linux, Kayenta, Mantis, Source Control, Spark, Storm, Puppet

Methodologies: AWS, Chef, Continuous Deployment, Continuous Integration, Data systems testing & validation, Docker, git, Hadoop, IIS, Linux, Puppet, Source Control, Spark, Statistical analysis, Storm, SVN, Testing & validating analytical methodologies

Specializations: Big Data, Complex Event Processing, Containerization, Data Engineering, Data Systems Architecture, Database Design, Distributed Algorithms, Distributed Data Systems, Greenfield projects, Infrastructure, R&D, Site Reliability Engineering, Stream Processing

TRANSFERABLE SKILLS

Languages: English (fluent), Hebrew (fluent)

Communication & People Skills: Code reviews, design reviews, documentation (internal and external), interviewing and assessing potential candidates, product and feature advocacy, project proposals, public speaking, sales engineering, technical assessments, technical leadership, technical writing, third-party communications, troubleshooting

Project Management: Agile methodologies, comprehensive and adaptive planning for project targets, delivery, estimates, executed short and long term projects throughout their full lifecycle (conception, planning, reviews, scoping, roadmap, estimates, delivery, maintenance, upgrades, and sunsetting)

Assets: Clear and organized leadership style, collaborative team contributions, efficient and well-paced task management, enthusiastic teacher and learner, independent self-starter, thorough diagnostic skills, user-driven perspective

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WORK EXPERIENCE

Senior Software Engineer - Resilience Engineering
Netflix | Aug. 2019 to present

- Kayenta (Statistical analysis engine)
  - Took ownership of the project, assessed its support needs and implemented a roadmap to bring it up to current support standards
  - Identified and implemented new features to address new client requirements
  - Designed and executed a testing methodology for evaluating changes to the statistical analytics engine, enabling use of a Continuous Integration process
  - Co-managed the project with Open Source partners
- ChAP (Chaos & Change automation platform)
  - Worked on a large systems migration to move users from an aging system to a new platform with improved stability and capabilities
  - Supported remaining users while the old system was undergoing obsoletion and migrating to ChAP
- Liaise with Data Science Engineering
  - Worked with Data Science to identify, implement, and evaluate new statistical methodologies

Distributed Systems Engineer, Chaos Engineer
Wallaroo Labs | 2015 - 2019

- Core contributor to Wallaroo, an open source, high-throughput, low-latency distributed real-time event processing framework written from the ground up in the Pony language.
- Worked on core functionality, testing & verification, metrics, telemetry, and instrumentation
- Built an end-to-end model-driven testing harness enabling chaos engineering, fuzzing, and generative testing
- Designed and implemented a distributed testing and property verification system for Wallaroo, allowing for rapid generation and execution of tests over thousands of topologies
- Performed R&D in testing and verification of distributed systems, using both empirical and formal method which helps improve the resilience and reliability of Wallaroo

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WORK EXPERIENCE (continued)

Platform Engineer
Counsyl | 2014 - 2015

- Redesigned the data systems architecture throughout the organization, reducing hardware footprint and enabling audit-ability and fine grained access control as required by HIPAA
- Created database systems automation for deployment and administration, reducing maintenance and recovery related downtime
- Updated the data systems architecture and configuration to meet HIPAA compliance

DataOps Team Lead
plentyoffish.com | 2014

- Established and lead the data ops team in developing and supporting the data systems at POF, which enable the IT, product, customer support, marketing, and executive teams to excel at each level
- Oversaw projects and ensured alignment with other teams in the organization
- Mentored junior team members to help advance their skills in software and data system design principles
- Coordinated cross functional projects and skills sharing with other teams, and helped develop data-driven product development methodologies

Senior Software Engineer, R&D, Data Science
plentyoffish.com | 2010 - 2014

- Designed, built and administered the monitoring, analytics, dashboards, and operational alerts stack, enabling the IT team to prevent service failures and outages
- Researched and implemented full end-to-end systems (CDN origin service, data backend for analytics, data backend for data science, distributed real time data collection and processing system), reducing service layer costs and enabling new data driven business opportunities
- Set up and administered multiple database clusters in a low-latency, heavy load environment (PostgreSQL, MSSQL, Cassandra)
- Developed a distributed and fault tolerant execution cluster for R code that ran the bot detection and social network-based predictions algorithms
- Built a high performance JavaScript rendering engine for real-time animated feeds
- Developed test automation tools for Android phones