Haim Grosman

San Mateo, Ca
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https://hgrosman.com

Architecting, building and maintaining cross platform native infrastructure, services and frameworks that power and build **products people Love to use, and rely on**.

EXPERIENCE

Google - DeepMind, Mountain View, Ca
Senior Staff SW Engineer

March 2023

A hands on Senior Staff Engineer - helping to get some 'bits shifted' in these areas:

- DeepMind AI Platform Data Infrastructure for training a bunch of LLMs and other sorts of multimodal models: Gemini, Veo, Genie, WorldSims, etc.

- Using/Abusing a state of the art Google Infrastructure for the above.

- {Open} BMC for some compute nodes and ML accelerators.

- Finally getting to know Borg.

- Lots of Free Food and Walks.

Today! , San Mateo, Ca — YOLO Project (owner)
https://doozyk.com/
Just for fun - YOLO project with a few friends

Zarta , San Mateo, Ca — Co-Founder and CTO

Sep 2021 - Feb 2024

We Co-Founded and Raised $5.7m from a16z and other wonderful about a dozen) investors.

We Hired a team of about seven to build the service and the product - I helped architect and build every single aspect of the product - from the lowest level bits in the DB on the backend to the illustration on the landing page.

We went from just an idea, through a rough slide deck, and wonderful top tier investors - all the way to a well funded company with end2end MVP built and released to a limited audience.

Unfortunately - not reaching a market fit (yet)

While the site is still up: https://zarta.com
Short Recorded Demo: demo

SKILLS

A GSD dude.

Building A tech startup powering a product from scratch.
Batch and Stream processing of data for ML/AI/Vision at scale.

C++ / C / Go / Python / ObjC & Swift.

AWS / Amazon Web Services: EC2, S3, RDS, Kinesis, Firehose, Redshift, ElasticSearch,

Linux, yocto, iOS / macOS ...

Grafana / Prometheus / DataDog / Sentry.io

Cloudflare Services / Workers / Pages

Apache Spark

Apache Kafka

facebook::Scribe::scribed -> https://github.com/facebookarchive/scribe

facebook::folly -> https://github.com/facebook/folly

facebook::thrift -> https://github.com/facebook/fbthrift

SQLite / leveldb / rocksdb.

iOS SDK: iOS CoreLocation, CoreMotion, CoreRoutine,

Direct links:

Airbnb , San Francisco, Ca — Metrics & Data Infrastructure
Software Engineer

Aug 2019 - Sep 2021

Help Architect, Implement and Maintain: One of Airbnb's Main on-line Storage services serving over 600k Requests per seconds, powering the Airbnb service we know and love (aka Oyster, UDS ...)

Help Architect, Implement and Maintain: Airbnb Data & Metrics infrastructure

https://medium.com/airbnb-engineering/how-airbnb-achieved-metric-consistency-at-scale-f23cc53dea70

https://medium.com/airbnb-engineering/airbnb-metric-computation-with-minerva-part-2-9afe6695b486

https://medium.com/airbnb-engineering/how-airbnb-enables-consistent-data-consumption-at-scale-1c0b6a8b9206

Tesla , Palo Alto, Ca — *Senior Staff Software Engineer*

Sep 2016 - Aug, 2019

Architecting, Prototyping and Building server/client infrastructure for the Tesla Autopilot (self driving).

The infrastructure was used to collect and process data from millions of customer owned Tesla vehicles in order to train and improve Computer Vision and AI decision making neural nets powering the Tesla Autopilot.

Playing with Web Apps— *owner / hobby*

Aug 2017 - Present

https://krzcool.com
Share your thoughts and honest feedback with anyone, anonymously and discreetly.

https://blipyip.com
Frictionless & Anonymous group chat rooms.
Built end to end in about 2 weeks.

Cellepathy— *Board Of Advisors*

Since 2014

Help Cellepathy solve the connected car problems related to driver attention by leveraging artificial intelligence and smartphone sensor data.

UIKit and other iOS Frameworks and Core Services.

Flask / django

Image Processing

OpenSceneGraph

OpenGL

LANGUAGES

English, Hebrew, Russian

Slack, San Francisco, Ca — *Senior Staff Software Engineer*

Aug 2015 - Aug 2016

Architecting, Prototyping and Building shared, native, cross platform libraries and services powering Slack.
Allowing it to scale its infrastructure linearly.

libslack & slackd architecture:
https://hgrosman.com/HaimGrosman_libslack.pdf

Facebook, Menlo Park, Ca — *Software Engineer (E6)*

Nov 2013 - Aug 2015

- Supporting legacy data collection and real-time data streaming component (scribe) that powers most core services like monitoring, data analytics, trending topics, ad impressions, billing and many others.
- Developing the next version of scribe: scribed, scribex and ztail; solving existing pain point and allowing it to scale the existing system by x10:
    - Complete rewrite Java -> C++
    - Eliminating the HDFS as a dependency
    - Eliminating the single point of failure: HDFS name node.
- Developing Instagram's data collection pipelines and integrating them with facebook data collection/processing/mining tools: Scribe/Hive/Presto/Scuba. Collected data is critical for:
    - Monitor the service.
    - Build new features like trending hashtags.
    - Model user behavior and prototyping of new features.
- Developing Instagrams feature targeting - Dynamic Gatekeeper. Allowing Instagram to target features to dynamic sets of users.
- Developing iOS Product Infrastructure to help the iOS Facebook application to improve performance and reliability.
  For example: Implementing real-time network performance and quality monitoring (integration with Proxygen)

UpThere, Palo Alto, Ca — Member of Technical Staff

Sometime during 2013

Working with the one and only, a close friend, Serlet Bertrand to co-invent prototype and patent the "Drill Down Search" for multi modal files on a very noble and unique cloud based file system. A feature that is the norm is all modern photo apps – iOS/MacOS/Android/Google Photos.

Apple, Cupertino, Ca — Senior Software Engineer

May 2010 - April 2013

Crafting, Developing, Maintaining and Perfecting the iOS/macOS CoreLocation Framework and service used by developers across the world to create super awesome location-aware mobile applications running on all

our iOS and macOS devices.

Also the guy who,
reminds Siri to remind you, to 'do <something> when i get to <somewhere>'

And the guy who,
makes sure GPS works quickly, accurately, anytime and anywhere.

And the guy who,
makes sure location services work quickly, robustly, and safely, even when there is no network connectivity at the moment.

And the guy who,
makes sure the CoreLocation client and server speak the same language fluently.

And the guy who,
makes sure your shiny iPhone/iPad's battery lasts longer.

And the guy who,
likes to write a Python script, before going to sleep.

Zoran, Sunnyvale, Ca — Senior Software Engineer

2004 - 2009

Developing public and private SDK for proprietary multimedia SoCs powering consumer devices – Digital Cameras, DVD recorders/players and digital TVs.

EDUCATION

Technion, Haifa, Israel — B. S. Computer Science - *Software Engineering*

2000 - 2004

Graduated Cum Laude

PATENTS

http://patents.justia.com/inventor/yefim-grosman
http://patents.justia.com/inventor/haim-grosman

NAVIGATING THROUGH MEDIA OBJECT COLLECTION
US20150134638

Altitude estimation using a probability density function
US8391889

Location Estimation Using a Probability Density Function
US20120309428

Mobile device location estimation
EP2530983, US20120309410

Neighbor Cell Location Averaging
US20120309387

Monitoring geofence exit
US20120309409

Selecting wireless access points for geofence monitoring
US20120307645

Method and apparatus for image correction
US20110069204

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