

ILYA NEPOMNYASHCHIY

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Backend software engineer seeking individual contributor role where I can apply my technical leadership experience towards building maintainable and high-quality backend systems and infrastructure with real world impact.

EXPERIENCE

Software Engineer | Palantir Technologies

Palo Alto, CA | September 2013 – Present

Senior IC & Tech Lead (October 2021 – Present)

- Overseeing technical execution on a multi-team initiative to migrate ~20 services in the Palantir Gotham platform to a new security framework, enabling cheaper marginal deployment for new customers and greater compatibility with Palantir Foundry.
- Collaborated on best practices for this migration with several infrastructure teams, created extensive documentation, and worked closely with ~8 product teams on their migrations as part of this initiative.
- Previously tech led ~13 people owning a legacy monolith service, which contained two core object stores, authn and authz APIs, UI serving and configuration, multiple data integration tools, and other disparately owned functionality. Improved stability at unprecedented user scales and moved non-core features into new microservices we rolled out to all customer environments.
- Designed, implemented, coordinated 1-3 other developers' work on, and fully rolled out several projects over 2 years collectively aimed at reducing 4 separately configured multi-node instances of this service in every Gotham customer environment down to 1, reducing complexity for both development and operations, as well as improving hardware costs.

DevOps (October 2020 – October 2021)

- Participated in first-line ops support for all Palantir services in most customer environments, primarily on airgapped networks.
- Developed tooling to reduce risk for and speed up fleetwide rollouts, migrations, and configuration management.

Junior IC (September 2013 – October 2020)

- Worked on projects focused on performance (application code and SQL queries), usability of tools by forward deployed engineers, backwards compatibility in APIs and shared data formats (including careful use of Protocol Buffers), and correctness / data integrity. Used a variety of backing systems (Apache Spark, Oracle/Postgres, Cassandra + Elasticsearch).
- Projects included data analysis tools such as a cybersecurity risk quantification project, an analysis platform for large credit card purchase data sets, and an alert triaging project. Also worked on data sharing across distributed installs of Palantir Gotham, some of which may only be intermittently connected or airgapped.

Technical Intern | Sift Science

San Francisco, CA | Summer 2013

- Experimented with a new ML model and developed a UI to help customers provide training examples from their own data.

Software Engineering Intern | Google

Santa Monica, CA | Summer 2011

- Refactored a major training step of rephil, a Bayesian net widely used at Google, cleaning it up and improving its runtime by 50%.

RESEARCH AND TEACHING

Summer Undergraduate Research Fellow | California Institute of Technology (Perona Lab)

Pasadena, CA | Summers 2010 & 2012

- 2012: Investigated creating real-time intelligent timelapses of surveillance and 'personal diary' videos. Advisor: Dr. Michael Maire
- 2010: Investigated crowdsourcing through Amazon Mechanical Turk to perform image segmentation. Advisor: Dr. Peter Welinder

Teaching Assistant | California Institute of Technology

Pasadena, CA | 2012 – 2013

- Grading and office hours for CS21 (Decidability and Tractability), ME/CS132a (Introduction to Robotics) and CS151 (Graduate-level Complexity Theory).

EDUCATION

California Institute of Technology

Pasadena, CA | B.S. With Honor | Graduated June 2013

Double Major: Computer Science and Mathematics | GPA: 3.8

ADDITIONAL INFORMATION

- *Primary Tools:* Java, Git, Basic UNIX
- *Experience In:* Apache Spark, C, Kubernetes, Prometheus/Grafana, Protocol Buffers, Python, Scheme, Relational SQL, Typescript.