

# Diana Issatayeva

 [dissatay@ucsd.edu](mailto:dissatay@ucsd.edu) |  [github.com/Yayka](https://github.com/Yayka) |  [linkedin.com/in/dissatay](https://www.linkedin.com/in/dissatay)

## EDUCATION

UC San Diego      BS: Computer Science      GPA: 3.69      Dec 2021

## OBJECTIVE

To facilitate research in AI safety. In the past 3+ years, I have worked in high-velocity teams with rigorous test-driven development culture. I now seek to apply acquired software development skills to neglected important problems.

## EXPERIENCE

**Sr. Software Engineer** – DNS Infrastructure      LinkedIn      Jan 2024 – Present

- Developed a DNS client to provide observability for all DNS requests across 400K+ hosts. It enabled effective DNS infra alerting and opened up security analysis projects.
- Broke down regulations to code and processes, as I translated DNS RFC compliance requirements into tests and testable specs within CI/CD pipeline.
- Used system profiling tools to ensure the process meets sub-millisecond latency and strict CPU, and memory utilization limits.
- See our blog post for more details: <https://www.linkedin.com/blog/engineering/infrastructure/building-a-resilient-dns-client-for-web-scale-infrastructure>.

**Software Engineer** – Traffic Engineering      LinkedIn      Feb 2022 – Dec 2023

- Maintained a Software Defined Network controller, that managed 50 backbone devices.
- Expanded configuration management component to provide drift detection service, and a high-level interface for operators to manipulate the network topology.
- Developed judgment in choosing the right scope for tests – from single-host, single-process to full multi-process, hardware-integrated scenarios.
- Developed techniques to progressively prototype features with minimal overhead. Unit tested with mocked RPC interfaces and device dependencies. Containerized 20+ micro-services to run integration tests on a single development host. And configured physical test labs with real devices and traffic generators to run end-to-end tests.

## ADDITIONAL EXPERIENCE

**Research Assistant** – WiFire      San Diego Supercomputer Center      Apr 2019 – Mar 2020

- Reduced operational load for researchers through infrastructure abstraction.
- Built a user-facing interface to specify parameters and dynamically containerize + deploy ML workloads.

**Project Lead** – FlapJS WebApp <https://github.com/flapjs/webapp>      Jan 2020 – Dec 2021

- Led team of 6 to develop automata analysis tools used by 50+ students per term.
- Converted research protocols into software and infrastructure: recruited participants, wrote test scripts, and managed data collection and analysis.

**Computer Science Tutor**      UC San Diego      2019–2021 (3 terms)

- Taught Discrete Math, Data Structures, and Software Engineering classes.
- Collaborated with the instructional team to coordinate a class of 200+ students.
- Led discussion sections, resolved student misconceptions, designed examples to demonstrate abstract concepts, and assessed homework.