

# Natan Lao

Software developer in Bay Area, CA

hello@natan.la

https://natan.la

## EDUCATION

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### University of California, Santa Cruz

Santa Cruz, CA

*Bachelor of Science in Computer Engineering with Honors; 3.57 GPA*

*Sep. 2016 – Jun. 2020*

Minor in Computer Science, concentration in Systems Programming. Honors program.

Relevant coursework: Distributed Systems, Network Programming, Operating Systems.

## EXPERIENCE

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### UC Santa Cruz Genomics Institute

Santa Cruz, CA

*Undergraduate Research Assistant*

*Nov. 2016 – Dec. 2020*

- **Data Object Service:** A standardized interface for accessing bioinformatics data. Maintained translation microservices and REST API specifications written using Swagger, and developed compliance testing tools.
- **Cloud platforms:** Helped maintain cloud deployments on platforms including Amazon Web Services, Google Cloud, and Microsoft Azure using tools such as Ansible, Chalice, and Terraform. Wrote provisioning and reporting tools for these services.
- **Build and test infrastructure:** Worked on continuous integration and deployment pipelines utilizing tools like GitLab and Travis for application testing, documentation building, and deployment.
- **HCA Data Storage System:** Contributed to a genomic data storage system built on Amazon Web Services and to the tools and REST API used to consume data in the system.
- **Documentation:** Created and contributed to API documentation (e.g., OpenAPI), developer documentation (e.g., Sphinx, ReadTheDocs), and consumer documentation, Jupyter notebooks, and vignettes.

### Hewlett-Packard Enterprise

Roseville, CA.

*Technical Intern*

*Jun. 2017 – Sep. 2017*

- **Internal tools:** Developed secure, scalable interface PoC to streamline analysis and distribution of business operations data for a division of over 1,000 employees (distributing \$100M+ annually).

### Hewlett-Packard, Inc.

Roseville, CA.

*Software Engineering Intern*

*Jun. 2015 – Jul. 2015*

- **Developer tools:** Built tools to remotely manage, configure, and automatically provision development hardware used by the Networking Research and Development branch.
- **Infrastructure:** Assisted in maintenance of physical testing hardware and infrastructure.

## SKILLS

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**Languages:** Python, Go, HTML, CSS

**Languages (developing):** C, C++, Java, SQL, Javascript, Haskell, Visual Basic for Applications,  $\text{\LaTeX}$

**Technologies, tools, and concepts:** AWS, Docker, Ansible, Git, Terraform, RPC, TCP/IP, UDP

**Methods:** Test-driven development, continuous integration and deployment, Agile, Scrum

**Interested in learning:** Rust, DevOps, TypeScript, Swift, React, Angular, Node.js, TensorFlow, Kubernetes, PyTorch

## RECOGNITIONS

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**Top 12% of Stack Overflow users by reputation**

*2020*

**Top 20% of Unix and Linux Stack Exchange users by reputation**

*2012*

**Member, UC Santa Cruz First-Year Honors Program**

*2016*

**Recipient, Dean's Honors**

*2017*

**Runner-up, HACK UCSC**

*2017*

Led team of five developing a student-to-student textbook swap app in Python. Runner-up out of 32 other teams.

**2nd Place, Hewlett-Packard Enterprise Best-in-Class**

*2017*

Placed second out of over 40 competitors in competition showcasing summer internship projects.

**Recipient, Dean's Honors**

*2019*

**Recipient, Dean's Honors**

*Spring 2020*

**Recipient, Cowell Service Citation**

*2020*

Awarded for "outstanding contributions to the life of Cowell College."

**Recipient, Cowell College Provost's Undergraduate Scholarship**

*2020*

Awarded for "academic achievement of a Cowell resident."