

Natan Lao

Software developer in Bay Area, CA

hello@natan.la

https://natan.la

EDUCATION

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

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

Languages: Python, Go, HTML, CSS

Languages (developing): C, C++, Java, SQL, Javascript, Haskell, Visual Basic for Applications, L^AT_EX

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

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."

LEADERSHIP

Representative to the Academic Senate, Cowell College

2016 – 2017

Represented local student government in the campus-wide faculty Senate.

Senator, Cowell Senate

2016 – 2020

Voting representative in college government.

Served as representative to campus-wide faculty Senate until 2017.

Student instructor

2017 – 2020

Taught a 20-student section in UN Contemporary Issues, an undergraduate-led class on international affairs.

Head student instructor, Cowell College

2018 – 2020

Maintained curriculum for UN Contemporary Issues and led teaching staff of 15 undergraduates.

Grew the course into UC Santa Cruz's largest student-led class (110+ students quarterly).

Founding member, Eta Kappa Nu Honor Society

2018 – 2020

IEEE-affiliated international computer engineering honor society.

Tau Beta Pi invited me, too, for the record.

Secretary-General, Model United Nations at UC Santa Cruz

2018 – 2020

Orchestrated planning of an annual intercollegiate debate conference. Managed a team of 30+.