

EDUCATION	Bachelor of Science, Computer Science Bachelor of Arts, Statistics University of Florida, GPA 3.84/4.0	Aug 2015 – May 2019
INDUSTRY & RESEARCH EXPERIENCE	Full Stack Developer Bedford Lab, Fred Hutchinson Cancer Research Center <ul style="list-style-type: none">Assisted development of Nextstrain, an open-source platform for real-time tracking of pathogen evolution	November 2021 – Present
	Contributor Serratus <ul style="list-style-type: none">Designed+developed serratus.io, a web interface to explore earth's viruses based on petabase-scale sequencing resultsBuilt 70GB database of analysis results for public consumption using a parallelized AWS Lambda ingestion approachExtracted geospatial info from 2m+ BioSample submissions to create an interactive map at serratus.io/geoCreated Flask API for connecting database to websiteImplemented code checks on 4 git repositories via GitHub Actions; automated deployments for website and APIAuthored/organized documentation hosted on GitHub repository wikis	March 2020 – Present
	Software Engineer Microsoft, Redmond, WA <ul style="list-style-type: none">Team: Microsoft Security Response Center (MSRC) Engineering - provides internal tooling for security analysts to fight digital threats to our companySpearheaded deployment of 10+ Azure resources to various clouds in line with standards for the JEDI customerImplemented parser/converter translating 100+ production-level automation workflows from JSON to PowerShell script for a next-generation workflow engineMitigated/resolved customer issues with our services during weekly on-call rotationAuthored/organized user guides and internal team documentation (TSGs, SOPs) in Markdown format	Aug 2019 – Nov 2021
	Bioinformatics Research Assistant Lab of Dr. Lei Zhou, University of Florida <ul style="list-style-type: none">Identified significant mutation patterns in p53 pathway using dataset of 70m+ genome-wide mutationsCreated a Python package to parse and extract taxonomy data from hundreds of protein sequences in an object-oriented fashionApplied machine learning models and visualizations on thousands of genomic data entires	May 2016 – Aug 2019
	Teaching Assistant EML 6934 (Python Programming), University of Florida <ul style="list-style-type: none">Worked with instructor in structuring a new course with 30+ graduate studentsCovered Python basics, NumPy, pandas, Matplotlib, SciPy, scikit-learn	Sep 2017 – Dec 2017
	Research Intern U.S. Army Research Laboratory, Adelphi, MD <ul style="list-style-type: none">Developed Python script to parse data files and determine circuit design efficiencyFacilitated development of efficient wideband power amplifiers for on-field transmittersNominated by branch chief as outstanding intern for ARL fellowship	Jun 2017 – Aug 2017
	Software Development/IT Intern Acceleration.net, Gainesville, FL	Jul 2015 – Jan 2017

- Designed Flask web app for device backup to facilitate management of 30+ offsite devices
- Managed 10+ client websites using WordPress and Linux command line
- Utilized Git and Trac to coordinate efforts with co-workers

PROJECTS

serratus.io – Open-source, open-access project to uncover earth’s viruses via cloud computing
serratus-summary-api – Serve Serratus summary data via a public API
serratus-summary-uploader – Parallelized parse+upload of Serratus files via AWS Lambda
biosample-sql – Extract geospatial metadata from BioSample XML, upload to public DB
p53-chip-seq-data – Machine learning and visualizations of lab-generated genomic data
uniprot-taxonomy – Python library for extracting taxonomy information from UniProt database

PUBLICATIONS

Sundaresan, V., **Lin, V.**, et al.
Significantly Mutated Genes and Regulatory Pathways in SCLC – A Meta-analysis. Cancer Genetics. 2017.

PREPRINTS

Edgar, R. C., Taylor, J., **Lin, V.**, et al.
Petabase-scale sequence alignment catalyses viral discovery. bioRxiv. 2021.