

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	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 company• Spearheaded deployment of 10+ Azure resources to various clouds in line with standards for the JEDI customer• Implemented parser/converter translating 100+ production-level automation workflows from JSON to PowerShell script for a next-generation workflow engine• Mitigated/resolved customer issues with our services during weekly on-call rotation• Authored/organized user guides and internal team documentation (TSGs, SOPs) in Mark-down format 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 results• Built 70GB database of analysis results for public consumption using a parallelized AWS Lambda ingestion approach• Extracted geospatial info from 2m+ BioSample submissions to create an interactive map at serratus.io/geo• Created Flask API for connecting database to website• Implemented code checks on 4 git repositories via GitHub Actions; automated deployments for website and API• Authored/organized documentation hosted on GitHub repository wikis 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 mutations• Created a Python package to parse and extract taxonomy data from hundreds of protein sequences in an object-oriented fashion• Applied machine learning models and visualizations on thousands of genomic data entireties 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 students• Covered Python basics, NumPy, pandas, Matplotlib, SciPy, scikit-learn 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 efficiency• Facilitated development of efficient wideband power amplifiers for on-field transmitters• Nominated by branch chief as outstanding intern for ARL fellowship Software Development/IT Intern Acceleration.net, Gainesville, FL <ul style="list-style-type: none">• 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	August 2019 – Present March 2020 – Present May 2016 – Aug 2019 Sep 2017 – Dec 2017 Jun 2017 – Aug 2017 Jul 2015 – Jan 2017

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.