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## EDUCATION

### Brown University

**Sc.B. Computer Science.** Expected Completion: May 2022.

Coursework includes Privacy-Conscious Systems, Algorithms, Formal Methods, Software Security and Exploitation, Distributed Computer Systems, Data Science, Programming Languages, Machine Learning, and Cybersecurity Ethics.

**A.B. Urban Studies, with Honors.** Expected Completion: May 2022.

Completing senior honors thesis examining regulatory and technical challenges to effective and equitable Internet access in urban settings.

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## WORK EXPERIENCE

### Linode

**Software Engineering Intern**

May–December 2021

- Developed the company's Python-based public-facing API, which enables programmatic and graphical interactions with the company's core products.
- Implemented new features, performed codebase-wide refactors, fixed bugs, and managed deployments to a production environment.
- Hired as a full-time intern starting in May 2021 and retained in a part-time capacity (while attending classes) from September through December 2021.

### Brown University

**Research Assistant**

May 2020–May 2021

- Participant in the Urban Transition Historical GIS Project, working to digitize archival street maps and census data.

### City of Providence

**Data Intern, Office of Sustainability**

June–September 2021

- Prepared City of Providence's 2018 Greenhouse Gas Emissions Inventory.
- Streamlined the creation of future emissions inventories by documenting procedures and writing Python scripts to automate data processing.

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**TECHNICAL PROFICIENCIES AND AREAS OF INTEREST**

<b>Programming languages</b>	C, C++, Go, Java, JavaScript/TypeScript, PHP, Python, R, Racket, Scala, Swift.
<b>Software Engineering</b>	<p>Significant experience using Git version control in both small and large projects.</p> <p>Familiarity with Docker/containerized applications.</p> <p>Experience in an agile work environment and developing with continuous integration pipelines.</p>
<b>Front-end Web Development</b>	<p>HTML, CSS, simple JavaScript.</p> <p>Frameworks including Angular, React, and Vue.</p> <p>Static site generation.</p>
<b>Back-end Development</b>	<p>API design and implementation with Flask (Python) and Express (JavaScript/Node.js).</p> <p>Relational Databases: basic design and use with raw SQL queries and ORMs (mostly SQLAlchemy for Python).</p> <p>Experience with basic Linux server administration, webserver configuration, and DNS records.</p> <p>Understanding and implementation of decentralized and distributed systems, including the Tapestry Distributed Hash Table and the Raft Consensus Algorithm.</p>
<b>Data Science</b>	<p>Significant experience with common data science packages in Python, including but not limited to NumPy, Pandas, GeoPandas, Matplotlib, Datashader, and HoloViews.</p> <p>Limited experience working with R to create Shiny dashboard views.</p>
<b>Areas of Interest</b>	Systems for data processing and release with differential privacy guarantees, broadband and telecommunications policy, geospatial data processing, digital civil liberties, algorithmic bias detection.