

ISABEL TRIPP

Software Engineer

CONTACT

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🌐 tahitihat

SKILLS

Python | Javascript (ES6) | Java
Ruby (familiar) | HTML/CSS

macOS | Linux/Unix

Git/Github | React.js | Docker
SQL (Postgres, MySQL) | GraphQL
Ruby on Rails | Flask | Data viz
Functional and unit testing

Sprint review presentations
Agile/scrum | Code review | Stats

COURSEWORK

Object-Oriented Design
Algorithms & Data
Computer Systems
Data Visualization
Human-Computer Interaction
Database Design
Probability & Statistics

LEADERSHIP

Northeastern CS Mentoring
Organization | *Mentor*

Bluebonnet Tech Fellowship |
Political Tech Fellow

NUWiT Club | *Outreach Chair*

HackBeanpot 2018 | *Organizer*

INTERESTS

Sustainability
Science Fiction
Tech Ethics
Ultimate Frisbee
Art Museums
Hiking

EDUCATION

Northeastern University, Boston, MA Sept 2016 - May 2021 (Expected)
Bachelor of Science in Computer Science, with Math minor
GPA: 3.94 / 4.00
Honors: University Honors Program | Dean's List 2016 - Present

TECHNICAL EXPERIENCE

Institute for Astronomy - University of Hawai'i, Honolulu, HI Aug 2020 - Present
Computing Research Assistant (Co-op)

- Design and implement a tool that stores observational light curve data for over 1 billion stars (over 50TB) and alerts in real-time when an object detection varies from its mean behavior model

Neurobiology Lab - Northeastern University, Boston, MA June 2020 - Aug 2020
Web Developer

- Worked closely with scientists to design a website and API showcasing stochastic, cellular automata growth model of stem-cell development
- Developed Python API and React.js website following WCAG 2.0 best practices, then containerized codebase with Docker Compose to run on Azure Ubuntu VM

Square Roots Urban Growers, New York, NY June 2019 - Aug 2019
Software Engineer (Co-op)

- Built IoT farm alerting system to notify users when farm environment departs range, using AWS Greengrass, Ruby on Rails, MongoDB, and Slack/Agrowtek APIs
- Developed 4 full-stack admin features that enhanced user capabilities in the UI and removed the engineering team as a consistent bottleneck for data migrations

U.S. Census Bureau, Washington, D.C June 2019 - Aug 2019
Software Engineering Fellow, Civic Digital Fellowship

- Developed complete proof-of-concept in Python (Flask) and MySQL for rebuilding conflict diamond trade analytics software in the Economic Directorate
- Utilized feedback from stakeholder interviews to build agency-wide tools for migrating SAS data apps to relational database systems

PowerAdvocate, Inc., Boston, MA July 2018 - Dec 2018
Software Developer (Co-op)

- Contributed to full-stack rewrite of web-based Energy Intelligence product while working closely with Agile team in React.js, Java Spring MVC, and Oracle
- Wrote high-coverage functional and unit tests as part of CI/CD workflow

TEACHING

Northeastern University, Boston, MA Sept 2017 - July 2020
Teaching Assistant for Programming with Data, CS Fundamentals

- Provided 1:1 assistance on course concepts at weekly office hours, lab sessions
- Supplied feedback and graded 20+ problem sets and quizzes per week