# ANNA LANDLER

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## EDUCATION

**Massachusetts Institute of Technology** **Cambridge, MA**
*BS in Computer Science and Systems Engineering* *2018-2022*

- **GPA** 4.8/5.0
- **Coursework** Design and Analysis of Algorithms • Software Construction • Machine Learning • Optimization for Business Analytics • Engineering Leadership • Transportation Modeling • Probability + Causal Inference • Embedded Systems • Data Science: Cities

## INTERNSHIPS

**Accenture** **Remote**
*Incoming Summer Analyst* *June 2021*

- Will be participating in the Hartford office's Technology internship.

**Jane Street Insight Program** **Remote**
*Business Development Program Participant* *Jan 2021*

- Selected for a week-long program at Jane Street, where I learned about making markets, compliance, and project management.

**r4 Technologies** **Ridgefield, CT**
*Operations Intern* *Jun 2018 to Mar 2020*

- Compiled and analyzed data on project timelines from Jira and coordinated with management to streamline business processes.
- Configured Jira plugin which was deployed to improve data quality and project progress analysis.
- Presented three times a year to C-suite executives.
- Created tool that retrieves data using PySpark and creates an optimally-binned histogram.

## RESEARCH EXPERIENCE

**Wu Lab** **Cambridge, MA**
*Professor Wilson H. Tang (1966) Research and Innovation fellowship* *May 2020 to present*

- Reviewed literature to determine stakeholders and essential KPIs for urban traffic.
- Coded a dashboard using d3 for traffic planners to adapt reinforcement-learning traffic controllers to the real world.
- Conducted usability study, and used results to develop new features.

**Transit Lab** **Cambridge, MA**
*Student Researcher* *Jan 2020 to May 2020*

- Created front end of a web tool that displays flood-prone areas of the T using JavaScript, CSS, HTML, and ArcGIS.
- Delivered the product to MassDOT to use in capital planning.

## ACTIVITIES

**Varsity Track** **Cambridge, MA**
*Mentor* *Sept 2018 to Present*

- Trains 15-20 hrs/wk to compete in the 400 hurdles and 400.
- Mentors a current sophomore and a current freshman having completed 2 years of leadership training.

**Civ/Env Eng Department Leadership** **Cambridge, MA**
*Program lead, executive board, honor society member* *Sept 2019 to Present*

- Planned a full-day virtual program to introduce incoming freshman to the Civil/Environmental Engineering department in August 2020. Worked closely with the department academic programs office to manage a 5K budget.
- Will be program lead for August 2021, with an in-person program and the same budget.
- Professional network chair, treasurer of the Civ/Env Engineering Student Association. Contacted professors to put together a listing of available research positions. Approves reimbursements and keeps track of >$10K budget.

## PROJECTS

**Optimization** Extracted data (geoJSON, TIFF) on population and electricity in Sierra Leone. Formulated an optimization using julia/Cbc for distribution of solar cells.
**Embedded Systems** In a team of 4, recreated Snapchat's map feature with Arduino. In charge of frontend (Google Maps).
**Programming Lab** Coded the backend to "Bloons" in python.
**Personal** Creating React app using flask, sqlite, and a Todoist API that enables users to allot time to tasks manage their productivity.
**Civil Engineering** Laser cut acrylic and built a prototype self-rising flood barriers. Tested prototype in a wave flume.
**Systems Engineering** Researched slime-mold-inspired algorithms and compared with models for spread of disease.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Julia, JavaScript, HTML, CSS, SQL (sqlite), Java
- **Computational Tools:** git, pandas, numPy, Bootstrap, Flask, React, d3
- **Other Tools:** Excel (pivot tables, macros), PowerPoint, Word, Jira
- **Familiar:** R, PyTorch, PySpark, ArcGIS