

Aubrey Thompson

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SUMMARY

Mathematician by training with a Master's in Neural Computation, former STEAM educator, writer of songs, articles and crossword puzzles. Looking to apply her knack for technical problem-solving, creativity, and enthusiasm for life.

EDUCATION

Tech Elevator, National Remote Class

May 2022–Present

Currently attending a 14-week full-stack coding bootcamp learning how to create dynamic web-based software systems using Java providing 700+ hours of development education and application.

Carnegie Mellon University

Aug 2014–Sept 2016

Master's in Neural Computation, Center for Neural Basis of Cognition, GPA – 3.67.

University of Nebraska-Lincoln

Aug 2010–June 2014

Bachelor of Science, GPA – 3.854. Major: Mathematics. Minors: Computer Science and Business.

TECHNICAL SKILLS

Python, Matlab, Spring Boot, Java, PostgreSQL, HTML, CSS, JavaScript, Vue.js, Responsive Design, IntelliJ, Git, Unit Testing (JUnit), E/R diagrams, Integration Testing, Unix

TECHNICAL EXPERIENCE

Tarotble (tarotble.netlify.app) *The Sound of AI Hackathon Project*

July 2022

- AI-generated tarot cards based on a song of your choice, built using Vue.js and Python.

Tech Elevator Capstone Projects

July 2022

- A client-server venmo replica using Java and Postgres.
- Java command line project simulating a vending machine interface.

PhD Student in Program for Neural Computation

Aug 2014–Sept 2016

- Developed mathematical models of neural activity in Julia, Python, and MATLAB
- Master's Thesis available upon request: Relating spontaneous dynamics and stimulus coding in competitive networks.

PROFESSIONAL EXPERIENCE

CITY OF PITTSBURGH, Park Ranger

May 2018–May 2022

- Organized and led environmental educational programming for children of all ages and adults, including:
 - star and planet gazing events
 - tree plantings
 - nature hikes
 - classroom lessons
- Worked with Pittsburgh Parks Conservancy and Department of Public Works to keep trails clear of overgrowth and trash
- Met with local community groups to assess park patrons desires for park amenities and improvements, passed on to city officials to consider

ASSEMBLE, INC., Pittsburgh, PA, Part-time Teacher

Sept 2020–Mar 2022

- Created and taught STEAM (science, technology, engineering, art, and mathematics) based lessons for all ages and backgrounds and partnered with schools and after-school programs to provide out-of-school learning time
- Assisted in coordinating communication between school partners and teachers, ordering materials, lesson plan management
- Planned for and led a team of 4 teachers in a full-time 7-week summer camp