

Darby Cobb

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Education

Georgia Institute of Technology

Master of Science - Analytics (Computational Track)

Relevant Coursework: (In Progress) Machine Learning, Regression Analysis

Expected Graduation: Dec. 2021

GPA: In Progress

University of Oklahoma

Bachelor of Science - Computer Science, Summa Cum Laude

Studied abroad at Oxford University, UK and in Arezzo, Italy

Relevant Coursework: Artificial Intelligence, Text Analytics, Database Management Systems

Spring 2020

GPA: 4.0

Experience

Jet Propulsion Laboratory — Software Development Intern

Summer 2020

- Implemented shadows in graphics for physics/space simulations used for Mars 2020, Europa Clipper and more (JavaScript: three.js)
- Supported and strengthened integration between user interface and backend (Python, C++)

Data Analytics Lab, University of Oklahoma — Honors Research Assistant

Aug. 2019 -

May 2020

- Discovered, cleaned, and organized over 25 large data sets in order to determine the prevalence of Simpson's Paradox in data
- Developed data-cleaning techniques (Python: numpy, pandas)

Garmin International — Software Engineering Intern

Summer 2019

- Added low-level functionality to existing automotive framework and Linux kernel now used in Mercedes vehicle (lua, C, C++)
- Developed collaboration and teamwork skills using Agile method, with software including Jira and Git

CodeSooner — Undergraduate Teaching Assistant

Aug. 2018 -

May 2019

- Developed course in web development for high schools now implemented by 14 high schools in Oklahoma (HTML, CSS, JavaScript)

Projects

Classifying Planets Outside the Solar System — In Progress

- Implementing an ensemble model using DBSCAN for clustering, then classifying newly discovered planet candidates as planets or false positives, using either decision trees or Naive Bayes (Python: sklearn)

Dental Healthcare Shortage Visualization Portal — In Progress

- Creating a Flask web application to visualize areas with dental healthcare shortages particularly for children (Python, Javascript: d3.js)

Skills

Proficient: Python, R, SQL, JavaScript, C++, Java, C, JSON, Clustering

Familiar: MATLAB, Tableau, Regression (Linear, Nonlinear), Docker, Spark, AWS

Scholarships and Activities

• MSA Accenture Analytics Fellow

• Teaching Assistant: TA for CSE 6040, Computing for Data Analysis

• Dean's Leadership Council: Mentor to 8 incoming freshman engineering students

• Association of Computing Machinery: Assistant with social media coverage of Hacklahoma, Oklahoma's first Hackathon

• Volunteer with University of Oklahoma STEM outreach: Introduced 25 elementary school students to coding concepts