

Aaron Green

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Education

University of Illinois at Urbana-Champaign

M.S. Computer Science (Planned) (Expected Graduation May 2020)

B.S. Statistics and Computer Science Cumulative GPA: 3.96. (Expected Graduation May 2019)

Relevant Coursework: System Programming, Artificial Intelligence, Computer Architecture, Data Structures, Software Design

Work Experience

Braintree (PayPal), Software Engineering Intern June 2018 - August 2018

- Automated billing for gateway-only merchants by adding a feature to the billing application in Rails
- Implemented data transformations for a pipeline by creating and scheduling spark jobs using PySpark and Airflow in Python
- Improved detail in database messages by modifying the wal2json PostgreSQL plugin in C

UnitedHealth Group, Software Development Intern June 2017 - August 2017

- Developed an internal web application using React.js, Flask, and MongoDB projected to save nearly \$1.1 million annually
- Utilized change data capture to stream real-time database changes and prevent performance loss on the source database
- Created real-time data visualizations using Chart.js and Cytoscape.js

AARP, Software Development Intern January 2017 - May 2017

- Developed a skill for Amazon Alexa to reduce isolation in the aging population using the Amazon Python SDK
- Deployed a backend tool using Flask on Amazon EC2 to enable audio encoding conversion for all Alexa skills at AARP
- Prototyped an Android application and email bot to facilitate collection of user data for the Alexa skill

Research & Teaching

LiveDataLab, Co-Founder & Developer March 2018 - Present

- Co-founded a nonprofit organization focused on building a cloud-based laboratory for data science along with Professor ChengXiang Zhai and two graduate students, backed by an educational grant from Microsoft
- See more at: <http://www.livedatalab.org>

University of Illinois TIMAN Research Group, Undergraduate Research Assistant August 2017 - Present

- Collaborated with graduate students to create an information retrieval web application backed by GitLab CI and Microsoft Azure
- Created a novel dataset for query-based abstractive summarization using Wikipedia, containing over 110,000 data points

CS 126: Software Design Studio, Course Assistant August 2017 - May 2018

- Led a weekly code review session with six students to teach proper style, design, testing, and version control
- Collaborated with course staff members to design weekly assignments and aided in developing the cheat detection pipeline

Projects

LiveNote – Real-Time Collaborative Note-Taking Tool December 2017 - January 2018

- Developed a web application using Ruby on Rails, Node.js, React.js, and PostgreSQL available at <http://www.livenote.xyz>
- Utilized Node.js and websockets for high-speed changes to notes across user groups to enable real-time collaboration

SmartPhoto – In-Browser Photo Editor and Storage Service May 2017 - June 2017

- Developed a web application using Node.js, Express.js, React.js, and MongoDB available at <https://smartphoto.herokuapp.com>
- Created an in-browser editing platform based on Caman.js integrated with auto-saving cloud storage

Skills

Languages: Python, Ruby, JavaScript, C, C++, Java, HTML, CSS

Web Frameworks and Libraries: Ruby on Rails, Node.js / Express.js, Django, Flask, React.js

Databases and Tools: PostgreSQL, MongoDB, Kafka, Spark, Airflow, Amazon Web Services, Git