Zoe Vogelsang

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Education

Barnard College of Columbia University   Expected Graduation May 2022
- (Transfer student) Pursuing Computer Science, B.A. GPA: 4.1

University of Southern California, Viterbi School of Engineering   Aug 2018 – May 2020
- Pursuing B.S., Computer Science, Minor in Physics. GPA: 3.80. Dean's List all semesters attended.

Skills

- C++, Java, Python, SQL. Experience with Spark and AWS tools. Front End with HTML CSS and JavaScript
  Relevant Coursework: Data Structures and OOP, Intro. to Software Development, Computer Science Theory, Analysis of Algorithms, Artificial Intelligence, Intro. to Databases

Experience

SWE Intern at Intuit   May 2021 to Present
- Designed and wrote a prototype batch ETL pipeline using Spark and deployed on AWS that leverages TurboTax data for the new beta Mint Salaries feature by filtering, exploding, cleaning, and aggregating tens of millions of verified W2s in Hadoop Hive S3 database

Course Producer for CS102, USC Department of Computer Science   Aug to Dec 2019
- Designed and led weekly lab sections to supplement course material; provided additional help at office hours and via email and Piazza
- Graded and provided feedback on an average of 10 coding assignments a week and two exams

Data and Analytics Intern, USC Information Technology Services   May to July 2019
- Assisted with the Person Entity Project to provide clean, timely, and integrated data for USC
- Tested functions and validated Financial Aid reports to ensure accuracy across corresponding legacy data
- Cleaned and formatted Financial Aid metadata
- Automated time-intensive data entry previously done by hand with Python

Projects

USC Viterbi Course Planner
  Java-based web application allows USC Viterbi students to view graduation requirements and create or update their four-year course plan. Group project: I led the front-end development using Bootstrap framework and DragulaJS for drag and drop interface and designed the structure of our MongoDB database.

Spacetag – "To the Moon and Hack" Project
  Swift IOS app using SwiftUI. We designed the app in Figma, used Google API for sign on, and used Firebase and Google Cloud Platform for the database. Vercel Serverless Functions were employed to host the API the app used to interact with Firebase.

Involvement

Online Editor, The Columbia Federalist   Jan 2021 to Present
- Redesigned website for increased flexibility, usability, engagement and moved 800+ articles from Squarespace to Wordpress
- Runs the website, writes articles and creates graphics.

Treasurer, Theta Tau Engineering Society at USC   Dec 2019 to June 2020
- Kept chapter funds; developed and maintained the budget; kept organized and accurate records of all financial transactions
- Oversaw fundraising and funding applications