

Franklin Wu

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EDUCATION

Duke University

B.S in Computer Science, Minors in Biology and Chemistry

Durham, NC

Class of 2023

- **GPA:** 3.98/4.0
- **Relevant Coursework:** Data Structures & Algorithms (CS 201), Computer Architecture (CS 250), Software Design (CS 307), Intro to Machine Learning (CS 371), Intro to Databases (CS 316), Operating Systems (CS 310)
- **Activities and Societies:** Duke Impact Investing Group, Duke Applied Machine Learning, Duke Tour Guides, Duke Investment Club, Phi Delta Epsilon Medical Society (Recruitment Chair)

Technical Skills:

- **Languages:** Advanced: Python, Java, React.js, HTML, CSS; Proficient: C, JavaScript, SQL, Hack/PHP, R
- **Tools/Frameworks:** AWS Services (EC2, S3, DynamoDB), Git, Mercurial, Flask, Django, Linux

EXPERIENCE

Meta, Inc. (Facebook)

Software Engineer Intern

New York, New York

May 2022- Aug 2022

- Implemented A/B testing framework to support new multi-merchant recommendation model for injected feed units under shoppable media on Instagram's home feed, pending upper-level ship decision
- Built out product tagging appeals pages using Bloks on the Instagram app as part of Meta's business integrity workflows
- Upgraded internal tooling to support debugging views for seller promotions and discounts on the Instagram storefront

Amazon Web Services, Inc.

Software Development Engineer Intern

Boston, MA

May 2021- Aug 2021

- Generated proof of concepts for an early-stage sales outcome machine learning platform for Amazon Web Services (AWS) to streamline customer workload migrations to the cloud
- Leveraged AWS EC2, S3, and Sagemaker to build and deploy logistic regression propensity models predicting a customer's likelihood to use AWS services; over 80% accuracy, recall, and precision. Models used in production

Duke Computer Science Department

Undergraduate Teaching Assistant

Durham, NC

Jan 2021 - Present

- Teaching Assistant for Data Structures and Algorithms course (CS 201) at Duke University
- Instructing students in understanding Java data structures and common algorithmic problem solving techniques
- Held weekly recitation sessions, office hours, and graded student work and exams

Duke Impact Investing Group

Data Analyst

Durham, NC

Jan-May 2021

- Undertook a pro-bono project for Ginger.io, an online mental health service, to uncover insights on product usage
- Performed data ingestion with Ginger's backend logs to analyze coach behavior and inform a redesign of the patient UI

Computational Cancer Genetics Research

Research Assistant

Durham, NC

Jun 2020 - Present

- 1 of 15 recipients of the Duke Biological Sciences Undergraduate Research Fellowship in Summer of 2020
- Developed and implemented biocomputational algorithms to identify cancerous mutations across novel genomes
- Project currently gearing towards eventual journal publication

PROJECTS

TeachOverflow

- Developed full-stack web app for teachers a platform to share ideas, upload teaching resources, and navigate online education as a community during COVID-19
- Hosted Postgres database in ElephantSQL, wrote APIs in back-end using Python and Flask, used Bulma for CSS styling

Java Game Engines

- Created multiple game engines, including Bloons Tower Defense, Cellular Automata simulations, and Brickbreaker
- Used Java in the back-end and JavaFX for animations and visualization while adhering to SOLID design principles and implementing the Model-View-Controller framework.

INTERESTS

Hobbies: NBA & Duke Basketball, Fantasy Football, NYT Crossword, Rewatching Marvel Movies, Spikeball, Chess

Foreign Languages: Fluent in Chinese, achieved Advanced Proficiency in French