

Alex Graves

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Education

University of Pennsylvania
May 2019

Major: Computer Science (Digital Media Design), B.S. in Engineering; **Minor:** French
GPA: 3.67 (Dean's List 2015-16, 2016-17)

Current and upcoming key coursework:

Computer Animation; Procedural Graphics; Automata, Computability, Complexity

Past key coursework:

Advanced Computer Graphics; Databases; Networks and Security; Algorithms;
Computer Design/Architecture; Android Development; Ruby on Rails Web Dev.

Experience

Intern, Front-End Engineer
Apple, Inc. (News Team)
Summer 2018

- Front-end engineering on Apple News Publisher using JavaScript ES6, HTML, CSS
- Helped finish a product to convert Apple News Format to responsive web pages
- Enhanced line graph display features in Analytics for News Publisher with D3.js

Director of Web Dev.
The Daily Pennsylvanian
Dec. 2017 – Present

- Lead a team of developers in maintaining full-stack apps, creating unique project pages, building **internal tools**, and expanding interactive and **data-driven** news
- Make high-level decisions as Business at-large member of the DP Executive Board

Intern, Product
Chariot Transit, Inc.
Summer 2017

- Implemented front-end and back-end for a new feature to add and display fully-booked charters dates, improving user experience for customers and employees
- Did front-end development on new **about**, **pricing**, and **commuter benefits pages**

Digital Director
The Daily Pennsylvanian
Dec. 2016 – Dec. 2017

- Made high-level company decisions as a member of The DP's Executive Board
- Managed digital departments (web development, design, analytics, social media, photo, video, and podcasts) and the DP's **digital product**

Web Developer
The Daily Pennsylvanian
Oct. 2016 – Dec. 2017

- Launched a full-stack **events website** and **restaurant guide** (both front-end and back-end development) in collaboration with other developers
- Developed **special project pages** for data-driven and visually interesting content

Design Editor
The Daily Pennsylvanian
Dec. 2015 – Dec. 2016

- Shifted the role of Design Editor to be more digital-first by collaborating with developers on **project website pages** and designing the UI for an events website
- Emphasized more data-driven work and illustrations within a 16-member staff

Skills

Programming Languages

Proficient: JavaScript, C++, Python, Ruby, HTML/CSS, Java, C

Some Experience: Scala, OCaml

Frameworks and Tools

Proficient: Git, Rails, OpenGL, Node, Angular, Android, MySQL

Design and Creative

Proficient: Illustrator, InDesign, Maya, Sketch, Photoshop

Languages

Advanced: French

Beginner: Japanese, Spanish

Selected Projects

Path Tracer, Spring 2018

Path tracer, built in C++ for Advanced Computer Graphics. Implemented point, area, and spot lights, multiple importance sampling, participating media, and implicit surfaces.

Trump speech data analysis and visualization, January 2018 (Repo)

This article analyzes Trump's mentions of Wharton. Wrote Python scripts for scraping/analysis, built visualizations with JavaScript.

Philly Guide, November 2017 (Repo)

A map-based guide to Philadelphia, built for my Databases final group project. Wrote relation scripts for the 2.3 million-row crime dataset. Implemented endpoints for customizable SQL queries.

Ascriber, PennApps XVI September 2017 (Repo)

Ruby website scraper to identify uncredited images, find the credits, and suggest alternatives. Built the image and credit scraper. Won "Best Use of Google Cloud Compute/Big Data Products".