

# 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:** 3.71 (Dean's List 2015-16, 2016-17)  
**Current key coursework:**  
Big Data Analytics; 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 – Dec. 2018

- 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, HTML/CSS,  
Python, C++, Ruby, 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

[Ville](#), Fall 2018 ([Repo](#))  
A user input-based procedural city generator built for my senior project. I implemented road generation and building placement algorithms and used the HTML5 Canvas for user input and three.js for 3D rendering.

[Outquote](#), Spring 2018 ([Repo](#))  
Dependency-free web app to create branded quote cards for the DP. I implemented the customizable options, including photo uploading.

[Philly Guide](#), November 2017 ([Repo](#))  
A map-based guide to Philadelphia, built for my Databases final group project. I wrote relation scripts for the 2.3 million-row crime dataset and 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. I built the image and credit scraper. My team won "Best Use of Google Cloud Compute/Big Data Products".