

# Clayton D. Petty

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## EDUCATION

**Texas A&M University**, College Station, TX  
Bachelor of Science in Computer Science  
Minor in Math and Business

May 2018  
Overall GPR: 3.92

## EXPERIENCE

**Microsoft**, Seattle, WA  
*Software Engineer Intern*

May 2016 – August 2016

- Created a feature to minimize email noise via content filtering for the Outlook Web App, used by 400 million clients
- Developed within the Model-View-View-Model software architectural pattern to separate backend and business logic from actual user interface elements
- Iteratively released new feature to larger audiences, monitored feedback daily, and serviced as necessary
- Coordinated with UI/UX Designer and Product Manager to optimize feature presentation and user interaction

**HomeAway**, Austin, TX  
*Software Engineer Intern*

June 2015 – August 2015

- Worked on the Search Team to develop tools to assist the migration of location data to a new platform
- Employed AngularJS, JavaScript, and server-side Java to develop a grid-oriented admin tool for managing 200,000+ pieces of location data
- Designed and wrote unit tests to verify server-side functionality and ensure quality of code using Java and JUnit
- Utilized the Google Maps API and WKT information to manipulate and visualize geo-data in bulk

## PROJECTS

### Literate

- Create a Markov chain based on a text input that tracks probability of characters
- Generate pseudo-random text that maintains a similar style to the original text

### Claytonpetty.com

- A website written using Node.js, JSON, the Jade templating engine, and CSS
- Serves as a technical blog with posts written in Markdown, hosted on claytonpetty.com

### One

- A command line based file upload/download service written in Python to interface with MediaFire
- Utilized Python's Argparse and Requests libraries as well as MediaFire's Python SDK

## LANGUAGES AND SKILLS

Proficient in JavaScript, Python  
Experience with Java, C++, Node.js, HTML, CSS, Git, Bash, MongoDB, Apache Maven, JUnit

## ACTIVITIES

### Student Engineers' Council (SEC)

January 2016 – Present

*Marketing Career Fair Coordinator (March 2016 – Present)*

- Establish, plan, and carry out various marketing techniques for the nation's largest student run career fair
- Contact and advertise to over 400 companies and a body of 15,000 students

*System Administration Committee (February 2016 – Present)*

- Create, design, and maintain all SEC web interfaces and online tools, encompassing 14 different committees

### Texas A&M Computing Society (TACS)

September 2014 – Present

*President (April 2016 – Present)*

- Lead Texas A&M's student chapter of the Association for Computing Machinery and IEEE professional associations
- Design and organize skill-based workshops to further members' skills with certain software and programming techniques

*Communications Officer (April 2015 – April 2016)*

- Manage all communication and coordination between over 150 TACS Members and fellow officers

### Aggie Computer Science and Engineering Scholars Program (ACE)

September 2014 – Present

*Member*

- Represent the Texas A&M University Computer Science and Engineering students at department meetings

- Interact with honors faculty and students through honors classes and events

## HONORS AND AWARDS

**Mays 2017 TAMU Case Challenge Winner**

January 2017

**Computer Science & Engineering Industrial Affiliates Program Scholarship**

September 2016

**MediaFire 1<sup>st</sup> place award at TamuHack College Station Hackathon**

October 2014

**Eagle Scout in the Boy Scouts of America**

August 2013