



# Andrew L. Smith

 <https://and-rewsmith.github.io>

 757-969-2794

 als5ev@virginia.edu

## Related Experience

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### University of Virginia – Undergraduate Researcher (Spring 2019)

- Developed parsers for CS4102 staff to generate temporal collaboration graphs from student assignments
- Designed and developed a temporal graph simulator which creates custom, realistic classroom outcomes
- Currently developing algorithm to analyze the effect of switching groups on student performance

### University of Virginia – CS4102 (Algorithms) Tutor (Fall 2018 / Spring 2019)

- Mentored students in algorithm/data-structure analysis

### Capital One – Software Engineering Intern (Summer 2018)

- Designed and developed RESTful, Spring Boot API to handle chargebacks for all fraud and dispute cases
- Created CI/CD pipeline to handle Dev/QA/Prod deployments complete with testing and static code analysis
- New RESTful API hosted through AWS within a Capital One VPC, phasing out three monolithic SOAP APIs

### Cavalier Daily – Full Stack Developer (Spring 2018)

- Full stack role handling article releases for abcdmag.com
- Created responsive, front-end html/css templates for interactive article releases
- Tools used: git, node.js, html, css, javascript, Heroku, AWS

### PRA Group – Data Science Intern (Summer 2017)

- Developed tools to score debtor accounts based on probability/quantity of expected payment
- Heavy use of python and related machine learning libraries (sklearn, tensorflow, keras, pytorch)
- Scoring models generated improved prioritization of debtors, accounting for ~10 million USD of added value

### xTuple – Software Development Intern (Summer 2016)

- Developed solution for first-pass internationalization of entire marketed application using Google Translate API
- Created process for updating clients with additional, language-specific versions of the marketed ERP application
- Above process deployed to on-prem servers via CI/CD pipeline

## Education & Skills

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### University of Virginia (2015-2019)

- B.S. in Computer Science
- 3.7 in-major GPA

**Tools:** git, AWS, docker, jenkins

**Languages:** python, java, swift, javascript, html, css, c++, SQL

**Frameworks:** spring boot, django flask, express, react, angular

## Projects ([github/and-rewsmith](https://github.com/and-rewsmith))

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### Sentiment Checker – (python, flask, twitter, NLP) (1<sup>st</sup> place Hack for Humanity 2018)

- RESTful webservice that checks all historical tweets relating to search query, and returns a sentiment rating

### Ethereum Price Predictor – (python, keras, NLP, docker, aws, proxies)

- Online Recurrent Neural Network (RNN) which gathers data from many public APIs