

# Anthony Botello

Entry-level Software Developer

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## SKILLS

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|--------------|--------------|--------------|--------------|
| • HTML       | • Django     | • MongoDB    | • Jupyter    |
| • CSS        | • C#         | • Angular    | • Notebook   |
| • JavaScript | • ASP.NET    | • TypeScript | • Pandas     |
| • jQuery     | • Core       | • Nginx      | • Ubuntu     |
| • AJAX       | • MySQL      | • Numpy      | • Java       |
| • Bootstrap  | • Node.js    | • Scipy      | • Azure      |
| • Python     | • Express.js | • Matplotlib | fundamentals |

## PROJECTS

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### PHYS 434 at UW: Advanced Data Analysis Techniques for Large Datasets

([https://github.com/anthonybotello/PHYS\\_434](https://github.com/anthonybotello/PHYS_434))

- Portfolio-based data analysis course at UW utilizing Python, Jupyter Notebook to consolidate prose and code; Numpy and Pandas for data manipulation; SciPy for statistical distributions and mathematical operations on data; Matplotlib to visually present results.

### Let's Eat (<http://le.anthonybotello.com/>)

- Full stack MEAN application deployed on Ubuntu 18.04 Azure Virtual Machine.
- Users can add new restaurants or review existing restaurants.
- Includes both backend and frontend validations for all forms.
- Technologies: JavaScript, TypeScript for writing front-end and back-end logic; Angular for front-end application functionality; Node.js, Express.js, MongoDB for interfacing between front-end and database; Bootstrap, HTML, CSS for front-end presentation, Nginx to serve application over Internet.

### Product Manager (<http://pm.anthonybotello.com/>)

- Full stack MEAN application deployed on Ubuntu 18.04 Azure Virtual Machine.
- Users can add new restaurants or review existing restaurants.
- Includes both backend and frontend validations for all forms.
- Technologies: JavaScript, TypeScript for writing front-end and back-end logic; Angular for front-end application functionality; Node.js, Express.js, MongoDB for interfacing between front-end and database; Bootstrap, HTML, CSS for front-end presentation, Nginx to serve application over Internet.

### Activity Center (<http://ac.anthonybotello.com/>)

- Full stack ASP.NET Core application deployed on Ubuntu 18.04 Azure Virtual Machine.
- Users can register/login to post, view, join, or edit activities.
- Includes backend validations for all forms.
- Technologies: C# for writing back-end logic; ASP.NET Core, Entity to build MVC application; MySQL for database; Bootstrap, HTML, CSS for front-end presentation, Nginx to serve application over Internet.

### Handy Helper (<http://hh.anthonybotello.com/>)

- Full stack Django MTV application deployed on Ubuntu 18.04 Azure Virtual Machine.
- Users can register/login to post, view, add, or edit jobs.
- Includes backend validations for all forms.
- Technologies: Python for writing backend logic; Django for building MTV application; SQLite for database; Bootstrap, HTML, CSS for front-end presentation, Nginx to serve application over Internet.

### Blackjack (<http://misc.anthonybotello.com/blackjack>)

- Simple game of blackjack.
- Technologies: JavaScript, jQuery for game logic; HTML, CSS, Bootstrap for front-end presentation.

### Trivia (<http://misc.anthonybotello.com/trivia>)

- Simple game of trivia.
- Technologies: JavaScript, jQuery for game logic; AJAX for calls to API; HTML, CSS, Bootstrap for front-end presentation.

## EXPERIENCE

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### University of Washington // 2018 – Present

#### Undergraduate Research in Physics

- Undergraduate research in the principles of particle detector design as well as detector signatures and backgrounds.
- Utilized Python with Numpy, Scipy, Jupyter Notebook, Matplotlib, and Pandas to analyze large sets of particle collider event data.

#### Undergraduate Research in Chemistry

- Undergraduate research in electronic structure theory; utilized Gaussian software to approximate nonlinear optical properties of simple molecules.
- Utilized Mathematica to analyze large data sets of molecular orbital energy data.

### United States Air Force Reserve // 2012 – 2017

#### Integrated Avionics Technician (AFSC: 2A852B)

- Provided maintenance support for missions flown by the C-5 aircraft of the 433<sup>rd</sup> Airlift Wing at Lackland AFB, TX.
- Provided maintenance support for missions flown by the C-17 aircraft of the 446<sup>th</sup> Airlift Wing at McChord AFB, WA.
- General aircraft maintenance including troubleshooting/maintenance of aviation electronics.
- Held SECRET security clearance, granted December 2011.

## EDUCATION

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### University of Washington // 2017 – Present

#### Bachelor of Science, Physics (Graduating March 2020)

- Undergraduate-level course work in electromagnetism, classical mechanics, thermodynamics, particle and nuclear physics, mathematics, computer science; graduate-level course work in quantum chemistry, quantum mechanics, and group theory.
- Laboratory course work in electronic circuits, particle and nuclear physics, and computational methods.

### Coding Dojo, Seattle // 2019

#### Graduate, September 2019

- Web fundamentals: HTML, CSS, and JavaScript.
- Full stack web development: Django, ASP.NET Core, MEAN.

### Tacoma Community College // 2014 – 2017

#### Undergraduate, Transfer

- Transferred out in 2017.

### Community College of the Air Force // 2012

#### Technical Training, Integrated Avionics

- Completed Electronics Principles apprentice course at Keesler AFB, MS.
- Completed Instrument and Flight Control Systems Avionics Fundamentals apprentice course at Sheppard AFB, TX.