

# Colton Bishop

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## Education

### Princeton University

Princeton, NJ, USA | September 2016-Present

Pursuing B.S.E. in Computer Science (GPA 3.7) with certificates in Applied Mathematics, Statistics and Machine Learning

### United World College of the Atlantic

St. Donats, Wales, UK | Graduated May 2016

Secondary School (GPA 4.0) | International Baccalaureate Diploma

## Work Experience

### Software and Systems Engineer – Intern

Boston, USA | June 2019- Present

Brown Brothers Harriman | Application Production Team

- Developed software to automate the testing and maintenance of the WorldView and InfoNAV applications.
- Full stack developer for an application to collect, analyze, and visualize data for the creation of CSR reports.

### Software Engineer- Intern

Buenos Aires, Argentina | June 2018- August 2018

Alquilando | Argentinian Real Estate Tech Startup

- Built a web app to automate the creation and distribution of contracts, reducing a 25 minute process to 5 minutes.
- Developed software to scrape and analyze market data in five target cities to routinely generate comparative reports.
- Integrated ad campaign data streams with Google Data Studio and Cyfe to design interactive dashboards for analysis.

### iOS Mobile Developer- Intern

Washington D.C., USA | January 2018 – February 2018

Environmental Protection Agency | Office of Digital Services and Technical Architecture

- Pushed version 1.0.10 of the EPA iOS application *HiveScience* to the App Store.
- *HiveScience* version 1.0.10 contributions: developed form submission process and barcode scanning functionality, resolved form bugs, and responded to user feedback with frontend updates.

### Undergraduate Researcher

Princeton, NJ, USA | June 2017 – August 2017

Department of Computer Science | Princeton University

- Participated in a summer research program with a stipend from Princeton's Department of Computer Science.
- Part of a team working to develop a machine learning model to predict and classify user consumption behavior.
- Contributed to student-initiated software projects under the supervision of Dr. Xiaoyan Li.

## Selected Projects (To view full portfolio, please visit [bishopcolton.com/projects](http://bishopcolton.com/projects))

**Donatello:** application to transform 2D images into 3D mesh models using a convolutional neural network and user input.

- Developed a symmetry and topology-aware network that understands user descriptions of symmetry and shape.
- Built frontend web application and GUI for interactive user input and refinement of mesh-modeled images.

**Wengga:** web platform for the collection of data and generation of public neural translators for resource-scarce languages.

- Built attention-based sequence-to-sequence network optimized for low-resource translation between languages.
- Built 'gap-aware' web framework that prompts users to fill the most critical gaps in the translated data corpus.

**Rype:** iOS application that tracks consumption habits and provides a sustainably prioritized list of potential recipes.

- Led team of three full stack developers to design, develop, and launch *Rype*.
- Special focus on frontend development, OCR scanning, consumption analysis algorithm design, and recipe scraping.

**TigerTales:** an online marketplace for Princeton students looking to buy and sell textbooks.

- Designed, developed and launched this CAS authenticated, Django-based website and marketplace with team of five.
- Special focus on backend development, data scraping, search and sort functionality, and Heroku migration.

## Service

National Suicide Hotline and CONTACT Crisis Chat Volunteer

September 2017 – Present

Student leader for Princeton's Davis International Center

April 2017 – Present

STEM Tutor at Mountain View Youth Correctional Facility

January 2017 – Present

## Honors and Awards

**Semester at Sea Davis Scholar Grant Recipient-** recipient of a full scholarship to participate in the Fall 2018 voyage.

**U.S. National Committee UWC Grant Recipient-** recipient of a \$60,000 grant to study at UWC Atlantic College.

**Eagle Scout-** awarded the rank of Eagle Scout in the Boy Scouts of America.

**U.S. President's Volunteer Service Award**

**Post Star Teen Excellence Award**