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 a certificate in Statistics and Machine Learning

United World College of the Atlantic   St. Donats, Wales, UK | Graduated May 2016
Secondary School | International Baccalaureate Diploma

Work Experience

Quantitative Research Assistant   Princeton, NJ, USA | September 2019 – Present
Andlinger Center For Energy And Environment | Behavioral Science for Policy Lab (BSPL)
- Oversee data scraping, cleaning, analysis, and modeling to support multiple BSPL research initiatives

Software Engineer – Intern   Boston, USA | June 2019- Present
Brown Brothers Harriman | Application Production Team
- Proposed and developed MEAN-stack web application to collect, analyze, and visualize environmental performance data across offices; invited to present to senior leaders in the New York, Zurich, and Luxembourg offices.
- Developed Java scripts to automate the maintenance and testing of major firm-wide applications and web portals.
- One of three charged with overseeing the migration of legacy testing scripts to a new integrated platform.

Software Engineer- Intern   Buenos Aires, Argentina | June 2018- August 2018
Alquilando | Argentinian Real Estate Tech Startup
- Proposed and built a Django-stack web app to automate contract generation, reducing process from 25 minutes to 5.
- Developed python API to scrape and analyze relevant market data and automate generation of 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
- Updated the iOS version of the EPA's *HiveScience* Swift application by improving the form submission process and barcode scanning functionality and responding to user feedback with frontend updates and bug fixes.

Selected Projects (To view full portfolio, please visit bishopcolton.com/projects)

Donatello: TensorFlow Python application to transform 2D images into 3D models using a convolutional neural network.
- Developed a symmetry and topology-aware network that understands user descriptions of symmetry and shape.
- Built frontend Django 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 Django web framework that prompts users to fill the most critical gaps in translated data corpus.

Rype: iOS application in Swift that tracks consumption habits and provides a sustainably prioritized list of potential recipes.
- Special focus on frontend development, OCR scanning, consumption analysis algorithm design, and recipe scraping.

TigerTales: a Django-based online marketplace for Princeton students looking to buy and sell textbooks.
- Special focus on backend database design, 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 and International Orientation	April 2017 – Present
STEM Tutor at Mountain View Youth Correctional Facility with the Petey Greene Program	January 2017 – Present
Princeton Disability Awareness Fair Volunteer Team	January 2017 – Present
Charity and Fundraising A Capella Performances with the Princeton Tigertones	September 2016 – 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 full scholarship to study at UWC Atlantic College for two years.
Eagle Scout- awarded the rank of Eagle Scout in the Boy Scouts of America.
U.S. President's Volunteer Service Award and **the Post Star Teen Excellence Award**

Technical Skills and Experience

Programming Languages: Java, Python, Swift, C, AWK, Go, HTML, Javascript, CSS, SQL
Libraries/Frameworks: Django, AngularJS, Node.js, TensorFlow, Spring
Additional Tools: Xcode, Git, MySQL, Heroku, UNIX, LaTeX, IntelliJ, MATLAB,