# **Abigail Bartolome**

## DATA SCIENCE | HUMAN-CENTERED COMPUTING | APPLIED MACHINE LEARNING

#### **OBJECTIVE**

To obtain a full-time position in **data science** where my skills in **problem-solving**, experience in **data science and machine learning**, and enthusiasm for understanding **human behaviors** can be leveraged to improve user experience and support **data-driven decision-making** in driving business objectives.

#### **EXPERIENCE**

# GRADUATE RESEARCHER, DARTMOUTH COLLEGE | AUGMENTED HEALTH LAB

2019—2023

As a data scientist, I analyze user data from pervasive wearable devices to extract latent patterns in digital biomarkers and model user behavior. I have worked with time-series and multimodal datasets from patients with diabetes to identify patterns in diabetes management<sup>1</sup> and discover digital biomarkers of glycemic control<sup>2</sup>. My responsibilities include:

- Leading data cleaning on the lab's datasets, conducting the initial exploratory data analysis, and preparing data visualizations to present the new dataset to the lab
- Applying data mining protocols to identify key features and preparing such data for further analysis and applied machine learning
- Designing and developing tools and frameworks to support data-driven diabetes management

## INSTRUCTOR, VIRGINIA TECH | INTRO TO SOFTWARE DESIGN

Jul 2018

Taught a joint introductory software design course for a summer session.

#### **AUTOMATION ENGINEERING INTERN, INTEL**

2014-2017

- Co-op May 2014—Jan 2015. Returned summers 2015, 2016, 2017
- Optimized team productivity by refactoring legacy tools and automating workflows
- Developed a tool that automates tool auditing

#### CONTACT

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#### **EDUCATION**

#### DARTMOUTH COLLEGE, 2023

MS, Computer Science

#### VIRGINIA TECH, 2018

MS, Computer Science & Applications

#### VIRGINIA TECH, 2016

BS, Computer Science Minor in Mathematics

#### **TECHNICAL SKILLS**

Machine Learning: Classification, Feature Selection, Topic Modeling, Text Feature Extraction, Clustering

**Python** (noteworthy libraries: Pandas, Scikit-Learn, Numpy, SciPy, Statmodels)

**Object-oriented programming** (Java, C)

#### **Exploratory Data Analysis**

**Data Visualization** (Matplotlib, Seaborn, Plotly, Dash)

**User-Experience** Design, **User Studies** 

**Unix** operating system, **Bash** scripting, **LaTeX** typesetting

#### **Google Cloud System**

#### **Firebase**

Additional programming languages: React-Native, R, Perl

<sup>&</sup>lt;sup>1</sup> Bartolome, A., Shah, S. & Prioleau, T. (2021). Glucomine: A case for improving the use of wearable device data in diabetes management. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, 5(3).* 

<sup>&</sup>lt;sup>2</sup> Bartolome, A., & Prioleau, T. (2022). A computational framework for discovering digital biomarkers of glycemic control. NPJ Digital Medicine, 5(1), 111.