

ALEX BEARD

(802) 595-1867
alexdbear@gmail.com

EMPLOYMENT

Baseball Operations Intern **Oakland Athletics** **May 2018 - August 2018**

- Analytics projects involving pitching and pitch tracking data

Software Engineer Intern **IBM** **May 2017 - January 2018**

- Used supervised learning to flag incident reports from field as high priority
- Created keyword/context based report recommender for Business Analysts
- Investigated and built demos of relevant Watson services (mainly NLP related)

Information Technology Intern **UVM Instrumentation & Technical Services** **May 2016 - May 2017**

- Automated the manual contract development process with JavaScript application
- Integrated a new web-based CRM/project quoting system
- Streamlined existing processes with Excel VBA

Teaching Assistant **University of Vermont** **December 2015 – May 2018**

- Intermediate Java, Applied Probability, & Discrete Math/Structures
- Held office hours, graded projects, homework, and quizzes, led a lab session, and tutored individually
- Brainstormed and implemented a final project option (Intermediate Java)

EDUCATION

Burlington, Vermont **University of Vermont** **January 2014 – May 2018**

- Dual B.S. in Computer Science, Business Administration
- Minors in Statistics, Math
- GPA: 3.69

PROJECTS

- **Independent Study** (2018): Used competition network approach to standardize international basketball statistics. Python, pandas, NumPy, scikit-learn. Link: github.com/abeard1/IndependentStudy
- **Petrobras Long Term Debt Analysis** (2017): Simulated factors relevant to ability to pay, generating a default probability, to find the optimal debt restructuring. R. Link: abeard1.github.io/files/PetrobrasMemo.pdf
- **iOS Application** (2016): Sends data from user-drawn supply curve to server, server calculates new curve, application draws curve that is sent back. Swift, Node.js

ADDITIONAL EXPERIENCE AND AWARDS

- **1st Place** (2016), **2nd Place** (2017): UVM Agile Codefest
- **1st Place** (2017): Inter-Collegiate Business Competition – MIS category
- **Best in Business Analytics** (2016, 2017): Awarded by University of Vermont School of Business
- **Quarter Finalist** (2016): Network of International Business Schools Case Competition

LANGUAGES AND FRAMEWORKS

- **Proficient:** Java, R, Python (including pandas, NumPy, scikit-learn)
- **Familiar:** PHP, SQL, Matlab, C, Swift, JavaScript, C++