Jacob Shiohira
COMPUTER SCIENCE & MATHEMATICS MAJOR

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Education

Raikes School of Computer Science & Management | University of Nebraska-Lincoln

• Senior enrolled in a selective, interdisciplinary school integrating innovative business concepts into traditional computer science curriculum with emphasis on practical and real-world experience taught through group projects - **graduation May 2020 | 3.95 GPA**
• **Relevant coursework**: Data Structures, Software Engineering, Introduction to Machine Learning, Linear Algebra, Statistics, Real Analysis, Abstract Algebra, Probability Theory, Non-Linear Optimizations, Data Mining, Algorithms

Senshu University | Tokyo, Japan

• Studied Japanese language, culture, and business during fall 2018 semester

Honors

Mortarboard Black Masque Chapter Member
Microsoft Tuition Scholar
2018 Bridging Foundation Japan Scholar

Activies

Microsoft Student Partner
New Student Enrollment International Welcome Team
UNL Arts & Science Ambassador

Projects

Reddit Sentiment Analysis - 2016 Presidential Election ⊙

Used Machine Learning to semantically and emotionally analyze Reddit comments to identify trends and anomolies around the time of the 2016 presidential election. Wrote a research paper describing the project.

Japanese Verb Conjugation Library ⊙

While learning Japanase, I wrote a Python library to help me practice verb conjugations. The library conjugates any Japanese verb in Kanji or Hiragana into 10 verb forms. Library is packaged and available for public use on PyPi.

Professional Experience

Amazon
SOFTWARE DEVELOPMENT ENGINEER INTERN · ALEXA ML DATA PLATFORM   Boston, MA | May 2019 - August 2019
• Designed a system that Alexa Machine Learning Data Platform teams could use to automatically identify and document what data their applications used at runtime
• System is 1 part of an Alexa organization initiative to document and understand the relationship between data being produced and consumed. This helps ensure data is protected and helps reduce operational costs on the order of tens of thousands of dollars.

Hudl
ASSOCIATE PRODUCT MANAGER INTERN · SOCCER ASSIST   Lincoln, NE | January 2019 - April 2019
• Worked with a full-time PM to develop and maintain roadmap leading up to project launch
• Organized and managed product experiments with Hudl Assist operations and professional analysts. Used experiment data to identify key metrics to inform stakeholders and address the team's riskiest assumptions.
• Setup and conducted discovery interviews with U.S. Hudl users and usability interviews with video analysts in India
• Ran scrum meetings (sprint planning, retrospective, refinement) for 8 weeks

ASSOCIATE PRODUCT MANAGER INTERN · HUDL FORUM
• Researched Hudl's community forum usage and engagement to help the PM Director decide if the forum was worth its cost
• Used Zendesk API to collect and organize 1,000+ data points to answer questions about usage and engagement over time
• Interviewed Hudl employees to better understand who is involved and working processes
• Wrote a research document with the forum's history, key questions and answers, future options, and a final

Amazon
SOFTWARE DEVELOPMENT ENGINEER INTERN · AWS CRYPTOGRAPHY   Seattle, WA | May 2018 - August 2018
• Worked on an AWS digital certificate management product making it easy for developers to ensure SSL/TLS compliance while using the AWS platform
• Made backend API and corresponding frontend changes to detect and warn developers when altering certificate parameters might cause issues upon certificate renewal

Microsoft
SOFTWARE ENGINEER & PROGRAM MANAGER INTERN · GRAPHICS TEAM   Redmond, WA | May 2017 - August 2017
• Worked on PIX for Windows a performance tuning and debugging tool for game developers
• Enhanced PIX command-line functionality allowing developers to automate testing functionality and increase productivity

Ice Cream Bro
CO-FOUNDER   Lincoln, NE | March 2016 - February 2017
• Co-founded an on-campus ice cream delivery service at University of Nebraska–Lincoln. Expanded the business into multiple product lines and merchandising. Business was a legal LLC in Nebraska.
• Profitable from the first night – over $1,200 in revenue and 300 pints delivered in first 10 nights of operation. Hired additional employees to help with operations as demand grew.