

Jacob Shiohira

STUDENT · COMPUTER SCIENCE & MATHEMATICS MAJOR

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Education

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

- Junior 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 | 3.85 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

Honors

2016 & 2018 ACM North Central Regional Contestant
Dean's List for all 6 semesters
Nebraska George Beadle Scholarship Recipient
Microsoft Tuition Scholar

Activities

HackGT & Nebraska CornHacks Participant
UNL Computer Science Student Recruiter
Microsoft Student Partner
Make-A-Wish® Illinois Charity Marathon Runner
Out of State Student Leader and Mentor

Projects

Reddit Sentiment Analysis - 2016 Presidential Election 🤖

Project that semantically and emotionally analyzed Reddit comments around the time of the 2016 presidential election. The goal was to identify trends and anomalies from comment text using semantic analysis, lemmatization, and more.

MiniShogi Game 🤖

A Python program that has multiple game modes of a MiniShogi (a variant of Shogi - Japanese chess). The game is played via CLI and supports interactive play and file input play, which begins the game from some state after parsing the input file.

Experience

Amazon 🔗

Seattle, WA | May 2018 - August 2018

SOFTWARE DEVELOPMENT ENGINEER INTERN · AWS CRYPTOGRAPHY

- Worked on an AWS digital certificate management product making it seamless 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 parameters will invalidate a certificate renewal, taking their services down.

Spreetail 🔗

Lincoln, NE | September 2017 - May 2018

DEVELOPMENT MANAGER & DEVOPS INTERN · CUSTOMER EXPERIENCE TEAM

- Managed a team of 6 developing a .NET Core 2.0 application to improve supplier data and relationship management
- Managed Azure resources - Container Instances, Blob Storage, SQL Database; and deployments of application

Microsoft 🔗

Redmond, WA | May 2017 - August 2017

SOFTWARE ENGINEER & PROGRAM MANAGER INTERN · GRAPHICS TEAM

- Worked on PIX for Windows, a performance tuning and debugging tool for game developers
- Wrote C++ production code for a CLI feature that allowed developers to automate testing and increase productivity by supporting serialization of in-game screenshots and buffer visualizations to multiple file formats

Ice Cream Bro 🔗

Lincoln, NE | March 2016 - February 2017

CO-FOUNDER

- On-campus ice cream delivery service at University of Nebraska-Lincoln, expanding business into merchandising
- Profitable from the first night - over \$1,200 in revenue and 300 pints delivered in first 10 nights of operation

Bulu Box 🔗

Lincoln, NE | May 2016 - November 2016

JUNIOR FULL STACK DEVELOPER · BULUMARKETPLACE TEAM

- 1 of 4 developers at a startup building a dual-sided B2B platform for retail buyers and suppliers
- Main contribution was building functionality and UI Integrated promotion functionality, like sponsored Facebook posts, that brought in \$250 in recurring revenue for each promotion

Have worked with Java, C++, Python, .NET Core, Django, Node.js, SQL, PostgreSQL MongoDB, Azure, Docker, Sass, Spring, AspectJ, Amazon Internal Build Infrastructure, Azure, AWS