

Max Bielstein

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(402) 213-8842

EXPERIENCE

Principal Financial Group

SOFTWARE ENGINEER I - II

June 2024-Current | Des Moines, IA (Remote)

- Created a high volume internal API using AWS Lambda and DynamoDB to store and deliver customer-facing data
- Managed team application operations during on-call shifts, actively monitoring metrics and escalating issues when needed.
- Built GitHub Actions workflows to automate the disaster recovery processes for our applications
- Designed and implemented a scalable sync solution using Typescript to keep data up to date using parallel asynchronous calls between several different internal APIs

SOFTWARE ENGINEERING INTERN

May 2023-June 2024 | Des Moines, IA (Remote)

- Upgraded and maintained multiple Amazon Web Services (AWS) applications that incorporate domain-driven design
- Created and maintained GitHub Actions workflows to automate the testing and deployment of applications
- Implemented AWS alarms to track errors and alert the team when they occur

Kiewit

SOFTWARE ENGINEERING INTERN

May 2022-August 2022 | Omaha, NE (Hybrid)

- Developed features to corporate applications while using scrum and agile development methodologies
- Worked with other interns on a scrum team to develop features on an existing application
- Added API calls and other functionality to a .NET application

University of Nebraska-Lincoln

SOFTWARE ENGINEERING TEACHING ASSISTANT

August 2021-May 2023 | Lincoln, NE

- Helped students in understanding and completing their coursework
- Assisted in directing and grading labs
- Explained difficult to understand concepts to first-time programmers

PROJECTS

PIZZA VISUALIZATION APPLICATION | Application for displaying pizzas within a pizza oven without the use of interior cameras

- Designed and created the user interface with JavaFX
- Coded the algorithm in Java for displaying pizzas within an oven with the use of exterior cameras
- Used webcam APIs to access, manipulate, and display images

Relvo Alloy | An application that uses machine learning to speed up the process of solving genetic algorithms in formal verification processes

- Created a reinforcement learning algorithm to optimize the speed of an existing formal verification software called [EvoAlloy](#)
- Successfully decreased the time needed for the formal verification to complete in many cases

EDUCATION

UNIVERSITY OF NEBRASKA-LINCOLN

BACHELOR OF SCIENCE

SOFTWARE ENGINEERING

GPA: 3.95

August 2020 - May 2024

LINKS

LinkedIn: www.linkedin.com/in/maxbielstein

Website: www.maxbielstein.com

COURSEWORK

Database Design

Algorithms

UX/UI

Formal Verification

Machine Learning AI

Software Architecture

Testing and Analysis

Software Engineering

Agile Processes

SKILLS

LANGUAGES

Python

C#

Typescript

CSS

SQL

C++

Java

Javascript

HTML

Dafny

C

Perl

Tools and Frameworks

Git

REST APIs

Azure DevOps

AWS

Jira

Yarn

Node.js

Spring

Next.js

DynamoDB

React

.NET

Agile

GitHub Actions

Docker

PNPM

TensorFlow

Sinon

Chai

Google Cloud

Currently Learning

AWS - Certification Process

Expo pipelines