Max Bielstein

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(402) 213-8842

EXPERIENCE

Principal Financial Group
SOFTWARE ENGINEER
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
- 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
- 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
- Documented and assessed results of the application

EDUCATION

UNIVERSITY OF NEBRASKA-LINCOLN
BACHELOR OF SCIENCE
SOFTWARE ENGINEERING
GPA: 3.95
August 2020 - May 2024

LINKS

LinkedIn: www.linkedin.com/in/maxbielstein

COURSEWORK

Database Design
Algorithms
UX/UI
Formal Verification
Machine Learning AI
Software Architecture
Testing and Analysis
Software Engineering
Agile Processes

SKILLS

LANGUAGES

Python	Java
C#	Javascript
Typescript	HTML
CSS	Dafny
SQL	C
C++	Perl

Tools and Frameworks

Git	React
REST APIs	.NET
Azure DevOps	Agile
AWS	GitHub Actions
Jira	Docker
Yarn	PNPM
Node.js	TensorFlow
Spring	Sinon
Websphere	Chai
DynamoDB	Google Cloud

Currently Learning

AWS - Certification Process
Ruby on Rails