

Nicholas Erickson

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EDUCATION

Iowa State University

Ames, Iowa

Bachelor of Science in Software Engineering

Aug. 2021 - May 2024

GPA: 3.78

TECHNICAL SKILLS

Programming Languages: Java, Dart, C#, TypeScript, JavaScript, HTML, CSS, SQL

Frameworks and Libraries: Spring, React, .NET, Angular, Redux, Node.js, Bootstrap, Material UI

Tools: Git, AWS (Lambda, S3, EC2, ECR, CodeDeploy), Terraform, Linux, Postman, Splunk

WORK EXPERIENCE

Software Engineer Intern

Ames, Iowa

Workiva

May 2023 - Present

- Collaborated with a team to complete Jira tickets for various Spring backend services and a Dart React frontend.
- Reengineered a CSV export endpoint with 4 data sources that resulted in over a 2x performance increase.
- Investigated and implemented an alternative solution to web browser cookie authentication for problem endpoints.
- Delivered multiple frontend enhancements through additions and reworks that followed UI/UX mockups.
- Utilized Splunk and New Relic to trace down bugs and monitor production environments.

Software Engineer Intern

Ames, Iowa

TMC Transportation

May 2022 - May 2023

- Developed a security metric tracking web app that supplied data to Power BI using .NET MVC and JavaScript.
- Created eight AWS Lambda functions that gathered and stored security data using APIs and web scraping.
- Constructed a CI/CD pipeline with Azure DevOps and Terraform to automatically deploy Lambdas to AWS.
- Rebuilt various user interfaces by migrating from .NET MVC to Angular and Material UI.

PROJECTS

Sit With Me

- Secured first place at Hack Iowa State v1 on a team of 4 against 50+ ISU students.
- Developed a social media website with an interactive map using React, MapLibre, and Firestore.
- Led teammates by introducing React and providing guidance for programming challenges.

Maze It

- Desktop application that scans in hand-drawn mazes through a live camera and displays the solutions on screen.
- Broadcasted ESP-32 live camera feed to a webpage and observed the stream of still images with Python.
- Processed maze images into graph data structure and ran breadth first search to find the shortest path..
- Built GUI with Tkinter to control the application and output the virtual solved mazes..

Vocal Galactic

- Won best Space Hack at K-State Hackathon 2021 against 37 other teams.
- Created an Asteroids inspired space game with primitive Java and Swing.
- Integrated a voice activated power ups feature using AssemblyAI API and Node.js.

PROFESSIONAL DEVELOPMENT

AWS Certified Cloud Practitioner Certification

Jan. 2023

Computer Science and Software Engineering Club

Aug. 2021 - Present