Benjamin R DeSollar

Phone: (630) 723-1447 | Email: ben.desollar01@gmail.com
www.linkedin.com/in/ben-desollar | https://github.com/bdesollar

Objective

Accomplished software engineer seeking a role in the tech industry. With a strong technical background, leadership skills, and effective communication, I aim to drive product development, enhance customer satisfaction, and boost sales efforts. My goal is to significantly impact any role, whether developing innovative software solutions, leading product strategies, or driving technical sales initiatives.

Education

The University of Iowa | Iowa City, IA   Aug 2019-May 2023
Bachelor of Computer Science and Engineering (B.S.E)

The University of Iowa | Iowa City, IA   Aug 2022-May 2024
Master of Electrical and Computer Engineering (M.S)

Engineering Experience

AMD, Fort Collins, CO   May 2023-Present
Software Engineer Intern
- Led the unification of three distinct applications into a comprehensive user interface, effectively communicating the benefits and functionality to non-technical stakeholders, resulting in a 60% increase in work efficiency.
- Developed and delivered debugging tools across all business units, streamlining chip debugging processes and enhancing productivity while effectively explaining the tool's benefits to a diverse audience.
- Collaborated on cost-saving solutions, contributing to large team initiatives and driving operational efficiency, demonstrating strong teamwork and communication skills.

University of Iowa, Iowa City, IA   Aug 2021-May 2023
Teaching Assistant
- Imparted critical programming knowledge in C++ and Java to over 600 students, facilitating their understanding of complex full-stack applications and software design principles.
- Graded students' homework, providing constructive feedback, and fostering their academic growth.
- Created and managed repos and projects, enhancing students' practical skills and exposure to real-world software development.

John Deere, Moline, IL   May 2022-Aug 2022
Software Engineer Intern
- Implemented robust security policies to fortify Kubernetes cluster security.
- Developed and incorporated Rego code in policies, increasing efficiency by 50% and optimizing security operations.
- Managed and deployed apps in Kubernetes using Kubectl, demonstrating proficiency in container orchestration.

Collins Aerospace, Cedar Rapids, IA   May 2021-Aug 2021
Software Engineer Intern
- Developed Python-based analytical tools, enhancing avionic program requirement accuracy and skyrocketing error scanning efficiency by 98%.
- Led a project to consolidate five development tools into one, reducing work time by 92% and boosting team productivity.
- Optimized data collection from multiple Restful APIs, improving algorithm time complexity and enhancing data processing efficiency.

Collins Aerospace, Cedar Rapids, IA   May 2020-Dec 2020
Software Engineer Co-op
- Engineered a high-performance application for military avionic documentation verification, accelerating data migration into a large data center and achieving a 98% reduction in verification time.
- Collaborated with a cross-functional team to ensure the successful migration of data, demonstrating strong teamwork and communication skills.
- Conducted rigorous testing and debugging of the application, ensuring its reliability and effectiveness in the data verification process.

Leadership Experience

UIowa Hyperloop Club, Iowa City, IA   Aug 2020-Dec 2022
Executive Board/Systems Lead
- Led a team of 15 in the design and development of pod software for the prestigious annual SpaceX Hyperloop competition, demonstrating exceptional leadership and technical prowess.
- Engineered and implemented control code onto an Arduino, showcasing advanced programming skills and hands-on hardware experience.
- Orchestrated rigorous assessment and testing protocols, ensuring the reliability and performance of the pod code.

Other Experience

BRDBOX, Iowa City, IA   Jul 2022-May 2023
Founder and CEO
- Launched a startup to gain firsthand experience with business operations.
- Engaged in supplier negotiation and customer communication, gaining invaluable insights into the sales process and customer relationship management.
- Leveraged the experience as a learning opportunity, gaining a deep understanding of product development and project management.

Projects

Omnilense (JavaScript, HTML, CSS, Firebase, React Native, Python)
- Engineered an innovative social media app using cutting-edge technologies like React Native and Firebase, introducing impressive features such as custom glasses and lightning-fast 1-second facial recognition.
- Awarded "Best Senior Engineering Project" at the Iowa College of Engineering, outperforming 30 other distinguished teams.
- Garnered $300 in a startup competition, effectively communicating the project's technical features and market potential to a non-technical audience.

DeSollarFitness (React Native, MySQL, Firebase, JavaScript)
- Undertook a rapid application development challenge, single-handedly engineering a comprehensive fitness application in two weeks.
- The application showcases a robust suite of features, including a 12-workout regimen, dynamic progress-tracking algorithms, calculated maxes over time, personalized user profiles, and a goal-setting module.
- Demonstrated agility and proficiency in software development, effectively communicating the app's technical features to potential users.

Skills

- **Programming Languages:** Proficient in Python, Java, C++, JavaScript, SQL
- **Frameworks/Libraries:** Experienced with React, React Native, Flask
- **Databases:** Skilled in MySQL, Firebase
- **Web Technologies:** Proficient in HTML/CSS
- **Version Control:** Experienced with Git
- **DevOps:** Familiar with Kubernetes, Docker, CI/CD
- **Project Management Methodologies:** Agile, Scrum
- **Soft Skills:** Communication, Customer Service, Problem-Solving

Relevant Coursework

Algorithms	Intro to AI & Machine Learning	Software Design
Data Mining	Software Engr Languages and Tools	Data Structures
Database Systems	Embedded Systems	Communication Networks