

Benjamin R DeSollar

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Education

The University of Iowa Iowa City, IA <i>Master of Electrical and Computer Engineering (M.S)</i>	Anticipated May 2024
The University of Iowa Iowa City, IA <i>Bachelor of Computer Science and Engineering (B.S.E)</i>	Aug 2019-May 2023

Technical Experience

University of Iowa , Iowa City, IA <i>Graduate Research Assistant</i>	Aug 2023-Present
<ul style="list-style-type: none">Played a key role in developing machine learning models using Random Forest and SVM, achieving 80% accuracy in predicting hearing loss gene mutations.Refined data preprocessing techniques and addressed class imbalance to enhance model performance.	
AMD , Fort Collins, CO <i>Software Engineer Intern</i>	May 2023-Aug 2023
<ul style="list-style-type: none">Orchestrated the unification of three distinct apps into a single interface, resulting in a 60% increase in work efficiency.Collaboratively designed and deployed debugging tools across cross-functional teams, streamlining debugging processes.	
John Deere , Moline, IL <i>Software Engineer Intern</i>	May 2022-Aug 2022
<ul style="list-style-type: none">Spearheaded the implementation of robust Kubernetes security measures, fortifying the infrastructure and enhancing system resilience.Innovatively employed Rego code to optimize security operations, achieving a 50% surge in efficiency.	
Collins Aerospace , Cedar Rapids, IA <i>Software Engineer Co-op/Intern</i>	May 2020-Dec 2021
<ul style="list-style-type: none">Developed analytical tools that enhanced avionic program accuracy and increased error scanning efficiency by 98%.Led a strategic initiative to consolidate five disparate tools into a single platform, reducing work time by 92%.	

Leadership & Teaching Experience

University of Iowa , Iowa City, IA <i>Teaching Assistant</i>	Aug 2021-May 2023
<ul style="list-style-type: none">Educated 600+ students in C++ and Java, significantly elevating their grasp of software design.Achieved a 90%+ positive feedback rate, showcasing communication skills vital for client-facing roles.	
Ulowa Hyperloop Club , Iowa City, IA <i>Executive Board/Systems Lead</i>	Aug 2020-Dec 2022
<ul style="list-style-type: none">Managed a 15-member team in the SpaceX Hyperloop challenge, showcasing technical and strategic leadership.Garnered \$5,000 in project funding, emphasizing skills in resource mobilization and stakeholder collaboration.	

Business Experience

BRDBOX , Iowa City, IA <i>Founder and CEO</i>	Jul 2022-May 2023
<ul style="list-style-type: none">Successfully initiated a startup, acquiring a comprehensive grasp of end-to-end business operations.Excelled in supplier negotiations and customer relations, boosting supply chain efficiency and client satisfaction.	

Projects

Omnilense
<ul style="list-style-type: none">Built a social media app with React Native and Firebase, featuring rapid 1-second facial recognition.Awarded "Best Senior Engineering Project" at the Iowa College of Engineering, outperforming 30 other teams.
DeSollarFitness
<ul style="list-style-type: none">Rapidly developed a feature-rich fitness app in two weeks, incorporating real-time progress tracking.Incorporated a smart goal-setting module that dynamically tailors workout plans, boosting user engagement.

Skills

<ul style="list-style-type: none">Technical: Python, Java, C++, JS, SQL, React, React Native, Flask, MySQL, FirebaseDevOps & Version Control: Kubernetes, Docker, CI/CD, GitSpecialized Technology: Machine Learning, OpenCV, Scikit-Learn, Neural NetworksManagement & Soft Skills: Agile, Scrum, Effective Communication, Customer Service
