

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">Unified three apps into one interface, boosting efficiency by 60% and effectively communicating benefits to stakeholders.Collaborated cross-functionally to develop debugging tools that streamlined debugging processes across all business units.	
John Deere , Moline, IL <i>Software Engineer Intern</i>	May 2022-Aug 2022
<ul style="list-style-type: none">Implemented robust security measures in Kubernetes, enhancing cluster security and reducing potential vulnerabilities.Increased security operations efficiency by 50% through the strategic development and integration of Rego code.	
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%.Spearheaded an initiative to consolidate five disparate development tools into a single app, cutting 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.	
U Iowa Hyperloop Club , Iowa City, IA <i>Executive Board/Systems Lead</i>	Aug 2020-Dec 2022
<ul style="list-style-type: none">Led a 15-member engineering team in the SpaceX Hyperloop competition, demonstrating technical acumen and leadership.Successfully secured \$5,000 in project funding, underscoring effective team leadership and stakeholder engagement.	

Business Experience

BRDBOX , Iowa City, IA <i>Founder and CEO</i>	Jul 2022-May 2023
<ul style="list-style-type: none">Founded a startup, acquiring key insights into product development and project management.Excelled in supplier negotiations and customer relations, boosting supply chain efficiency and client satisfaction.	

Projects

Omnilense (JavaScript, HTML, CSS, Firebase, React Native, Python)	
<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," outperforming 30 other distinguished teams.	
Notably (React Native, MongoDB, Express.js, Node.js, OpenAI GPT)	
<ul style="list-style-type: none">Secured a 1st-place victory for Notably at the University of Iowa Hackathon, eclipsing 200+ entries through comprehensive development and API mastery.Innovated customizable note and study features, utilizing OpenAI GPT and Google Cloud Vision to enrich user experience.	

Skills

<ul style="list-style-type: none">Programming: Python, Java, C++, JavaScript, Ruby, SQL, Go, HTML/CSSFrameworks & Databases: React, React Native, Node.js, Express.js, MySQL, Firebase, MongoDBDevOps & Version Control: Kubernetes, Docker, CI/CD, GitSpecialized Technologies: Machine Learning, OpenCV, OpenAI GPT, Computer VisionProject Management & Soft Skills: Agile, Scrum, Stakeholder Management, Team Collaboration	
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