

Benjamin R DeSollar

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Education

The University of Iowa Iowa City, IA <i>Master of Science (M.S), Electrical and Computer Engineering</i>	Aug 2022-May 2024
The University of Iowa Iowa City, IA <i>Bachelor of Science in Engineering (B.S.E), Computer Science and Engineering</i>	Aug 2019-May 2023

Technical Experience

University of Iowa , Iowa City, IA <i>Graduate Research Assistant</i> audiogene.eng.uiowa.edu <ul style="list-style-type: none">Led the development of the AudioGene Translational Dashboard (AGTD), integrating machine learning and visualization to enhance the prediction of hearing loss genes.Improved diagnostic accuracy through innovative data analysis and visualization techniques, addressing data sparsity.	Aug 2023-July 2024
AMD , Fort Collins, CO <i>Software Engineer Intern</i> <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.	May 2023-Aug 2023
John Deere , Moline, IL <i>Software Engineer Intern</i> <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.	May 2022-Aug 2022
Collins Aerospace , Cedar Rapids, IA <i>Software Engineer Co-op/Intern</i> <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%.	May 2020-Dec 2021

Leadership & Teaching Experience

University of Iowa , Iowa City, IA <i>Teaching Assistant</i> <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.	Aug 2021-May 2023
U Iowa Hyperloop Club , Iowa City, IA <i>Executive Board/Systems Lead</i> <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.	Aug 2020-Dec 2022

Business Experience

Omnilense , Iowa City, IA <i>Co-Founder & CTO</i> <ul style="list-style-type: none">Directed a team of four, engineering glasses with facial recognition paired with a social media app, enhancing connections.Secured \$300 in a pitch contest and was granted an additional \$15,000 for the business venture.	Jul 2022-Jun 2023
BRDBOX , Iowa City, IA <i>Founder and CEO</i> <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.	Jul 2022-May 2023

Projects

Notably (React Native, MongoDB, Express.js, Node.js, OpenAI GPT, Google Cloud Vision) <ul style="list-style-type: none">Directed Notably to a 1st-place finish at the University of Iowa Hackathon, outperforming 200+ competitors by leveraging advanced ML/AI and cloud solutions.Engineered seamless integrations of OpenAI GPT-3.5 and Google Cloud Vision APIs.	
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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 VisionManagement & Soft Skills: Agile, Scrum, Effective Communication, Customer Service, Stakeholder Management	
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