Benjamin R DeSollar

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Education

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

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

Technical Experience

University of Iowa, Iowa City, IA — Aug 2023-Present
Graduate Research Assistant
- 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 — May 2023-Aug 2023
Software Engineer Intern
- 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 — May 2022-Aug 2022
Software Engineer Intern
- 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 — May 2020-Dec 2021
Software Engineer Co-op/Intern
- 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 — Aug 2021-May 2023
Teaching Assistant
- 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.

UIowa Hyperloop Club, Iowa City, IA — Aug 2020-Dec 2022
Executive Board/Systems Lead
- 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

Omnilense, Iowa City, IA — Jul 2022-Jun 2023
Co-Founder & CTO www.omnilens.tech
- 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.

BRDBOX, Iowa City, IA — Jul 2022-May 2023
Founder and CEO
- 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

Notably (React Native, MongoDB, Express.js, Node.js, OpenAI GPT, Google Cloud Vision)
- Achieved 1st place at the University of Iowa Hackathon, surpassing 200+ entries with innovative API use.
- Crafted enhanced note and study functionalities, leveraging OpenAI GPT and Google Cloud Vision.

Skills

- **Programming**: Python, Java, C++, JavaScript, Ruby, SQL, Go, HTML/CSS
- **Frameworks & Databases**: React, React Native, Node.js, Express.js, MySQL, Firebase, MongoDB
- **DevOps & Version Control**: Kubernetes, Docker, CI/CD, Git
- **Specialized Technologies**: Machine Learning, OpenCV, OpenAI GPT, Computer Vision
- **Project Management & Soft Skills**: Agile, Scrum, Stakeholder Management, Team Collaboration