Aryan Indarapu

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Education

B.S. in Computer Engineering | University of Illinois at Urbana-Champaign | 12/2024 | Champaign, IL
GPA: 3.79
Fall 2021 Dean's List

Experience

Software Engineering Intern | 07/2022 - Present | Densec Technologies
- Migrated application from native Android to React Native and Amazon Web Services
- Built foundation to implement Computer Vision models for app functionality

ECE 110 Teaching Assistant | 09/2022 - 12/2022 | University of Illinois at Urbana-Champaign

Undergraduate Research Assistant | 06/2022 - 07/2022 | Purdue University | West Lafayette, Indiana
- Studied the security of machine learning model hubs by analyzing the possible risks and vulnerabilities, such as malicious model types, dataset poisoning, and general attacks
- Wrote prose and created diagrams to demonstrate how an attacker could infiltrate and infect model hub ecosystems
- Submitted paper for SCORED Workshop (Accepted)

Cloud Engineering Intern | 09/2021 - 01/2022 | BAM.Money Inc.
- Improved web crawler efficiency by leveraging AWS cloud backend services
- Worked extensively with AWS Cloud backend to optimize storage and decrease costs
- Streamlined front-end APIs to create serverless and cost-effective workloads

Software Engineering Intern | 06/2021 - 08/2021 | Nathan Research Inc.
- Worked on flagship "ReMAP" product, enhancing image replacement and colorization techniques, along with selecting CV pretrained models for further training
- Used Python with the scikit-image library for image realistic enhancements

Bioimaging Research Assistant | 07/2019 - 12/2020 | Indiana University Purdue University - Indianapolis
- Developed a working CARE model with minimized loss to process and filter noise live nucleosome images
- Leveraged libraries to improve Fluorescence Lifetime Imaging Microscopy (FLIM) images with neural networking
- Published Research Paper: "Restoring the fast dynamics of single molecules with deep learning"

Notable Coursework

- **CS 225** - Data Structures And Algorithms (C++)
- **ECE 374** - Introduction to Algorithms and Models of Composition
- **ECE 210 & 310** - Analog & Digital Signal Processing
- **ECE 220** - Computer Systems and Programming (C/C++, LC-3 Assembly)
- **MATH 257** - Linear Algebra with Computational Applications (Python)

Skills

- **Programming Languages:** C/C++, Python, Javascript, Java
- **Amazon Web Services:** AWS Certified Solutions Architect Associate
- **Deep Learning Frameworks:** Tensorflow, Keras
- **Fullstack Development:** React.js, React Native, ExpressJS, AWS
- **Distributed Systems:** BerkeleyX - Blockchain Fundamentals