

John Bean he/him

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Education

University of Delaware Honors College

Honors Computer Science BS | *Concentration in Data Science*

GPA: 3.521/4.000

Newark, Delaware

May 2024

Relevant Coursework

- Software Engineering, Machine Learning, Data Mining, Artificial Intelligence, Statistics & Probability, Data Structures, Algorithms, Logic, Parallel Computing, Discrete Math, Calculus 1-3, Technical Writing

Programming and Skills Summary

- **Languages:** Python | HTML | C | C++ | TypeScript | JavaScript | Lisp | SQL
- **Libraries and frameworks:** React | .NET | PyTorch | scikit-image | Unity for VR
- **Other skills:** Agile experience | Intermediate proficiency in Mandarin |

Experience

Gleghorn Lab

Machine Learning Engineer Intern

- Working on a team of NIH funded researchers on drug delivery systems.
- Developing WINDOWZ., a resource efficient biomedical image segmentation pipeline.
- Maintaining GitHub repository and writing robust user manual.

Newark, Delaware

June 2023 - Present

University of Delaware

University of Delaware Teaching Assistant [CISC303: Automata Theory]

- Facilitating weekly problem based learning sessions.
- Holding weekly office hours to further student understanding of theoretical machines and computation.
- Strengthening foundational knowledge

Newark, Delaware

September 2023 - Present

Resident Assistant & Office Manager

- Building a community on the floor with a diverse group of 40 residents.
- Crisis response and conflict mediation for a building of over 600 residents.
- Responsible for auditing building resources and weekly administrative training presentations.
- Awarded Staff MVP for the 2021-2022 academic year.

August 2021 - Present

VR and 3D Visualization Biomedical Research Intern

- Working on a team of researchers for NIH funded research on cancer of the tongue.
- Gathering data on organisms with similar geometric structure to cancer cells.
- Implementing multiple visualization systems and studying micro skeletal structures.

June 2021 - June 2022

Cybersecurity Scholar

- **Youth Outreach Team:** Organizing volunteer teachers to teach elementary programming concepts.
- **Cybersecurity Newsletter:** Contributing to a monthly cybersecurity panel for the student newspaper.

September 2020 - Present

Independent Projects

BEHOLDER for D&D Fifth Edition

- Makes important player statistics easily available to Game Masters to make game preparation easier.
- Studied GraphQL and created a React + TypeScript web application utilizing D&D5e API.

Serial Port Monitor for Seabed Depth Monitoring

- Monitors serial port data to display a warning when the data stream spikes above a user-defined threshold.
- Studied .NET and C#, and combined softwares to spoof serial port data for app testing.