

# ARNAV JOSHI

Availability: July - December 2022

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## EDUCATION

**Candidate for Bachelor of Science in Computer Science**  
**Khoury College of Computer Sciences**

Northeastern University, Boston, MA | Sept 2020 - Present

Computer Science Major with Artificial Intelligence Concentration & Business Administration Minor  
GPA: 3.79/4.00 | Dean's List | PlusOne Master's Program | Expected Graduation: April 2024

Relevant Courses: Math of Data Models, Object Oriented Design, Theory of Computation, Artificial Intelligence, Computer Systems, Machine Learning/Data Mining I, (Current Courses: Intro to Algorithms, Machine Learning/Data Mining II, Intro to Cybersecurity)

## SKILLS & SOFTWARE

- General Skills: machine learning, high attention to detail, people skills (strong communicator & leader)
- Languages & Frameworks: Java, Python [Scikit-Learn, Pytorch, Tensorflow, Keras], HTML/CSS [Bootstrap], LaTeX, JavaScript [React, NodeJS, Express], C, MATLAB, Racket, Verilog, MIPS Assembly. Currently Learning: C++, SQL, PostgreSQL, Prisma, TypeScript
- Operating Systems: Windows [Powershell], MacOS, Ubuntu/Linux [Bash]
- Applications & Technologies: Microsoft Office Suite, Adobe Creative Cloud, Git, VMWare/VirtualBox, Postman

## EXPERIENCE

**Software Project/Tech Lead [React, TypeScript, Prisma, PostgreSQL]**

Northeastern Electric Racing, Boston, MA | Jan 2022 - Present

- Directing squad of 8+ people within software solutions team to develop project management dashboard.
- Facilitating scrum sprints with retrospectives under agile framework to efficiently work through tickets.

**Web Developer [React, HTML, CSS]**

FirstByte, Boston, MA | Sept 2021 - Present

- Redesigning FirstByte website from scratch initially using HTML and CSS & developing responsive version in React.
- Providing educators with materials and support to teach computer science and engineering via clean, functional website.

**Rocket Propulsion Software Developer [C++, React]**

AerospaceNU, Boston, MA | Sept 2021 - Present

- Developing watchdog software for propulsion stand to monitor rocket vitals with team of 4-8 people.
- Creating backend in C++ to handle 7 states and issue 100+ unique warnings to React GUI via engine control software.

**Teaching Assistant for Object-Oriented Design [Java]**

Khoury College of Computer Sciences, Boston, MA | Oct 2021 - Dec 2021

- Reinforced concepts with (250+ in course) students one-on-one through office hours, labs, grading, and online forums.
- Taught students to embrace SOLID and strong design principles when programming (taught in Java).

**National Honor Society President**

National Honor Society, Sharon, MA | May 2018 - Jun 2020

- Administered Sharon High School chapter of National Honor Society (80+ students - largest student organization).
- Organized groups, approved & delegated projects, began community initiatives (babysitting service & community fair).
- Raised \$2000+ for charity through drives & events, ran administrative events (i.e. induction ceremony), and tutored students.

**Biomedical Engineering Intern**

Antagen Pharmaceuticals, Boston, MA | Jul 2019 - Aug 2019

- Learned to construct expression vectors for algae with heavy tissue cultures & molecular biology cloning.
- Utilized PCR techniques and plasmid DNA preparation and extraction methods to do work in insulin & cancer research.

## PROJECTS

**NBA Player Classification [NumPy, Pandas, Scikit-Learn]**

Artificial Intelligence, Northeastern, Boston, MA | Dec 2021

- Clustered NBA players using their play style instead of position.
- Implemented several classification methods to put players in clusters [\[see full report\]](#).

**Generative Adversarial Network [TensorFlow, Keras]**

Machine Learning & Data Mining I, Northeastern, Boston, MA | Dec 2021

- Designed a GAN that took in dataset of celebrity faces and generated novel faces.
- Employed convolutional neural networks as generative network and discriminative network for model.

**Layered Image Enhancement [Java, Java Swing]**

Object Oriented Design, Northeastern, Boston, MA | Jun 2021

- Created a packaged image editing and manipulation software with responsive GUI interface.
- Structured code in MVC architecture with functional input/output & ability to blur, sharpen, mosaic and apply other filters.

## ADDITIONAL INFORMATION

- Accomplishments:
  - Summa Cum Laude - Sharon High School - Jun 2020
  - President's Volunteer Service Award (x2) - President of the US & Shishu Bharati - Nov 2017 & Nov 2018
- Technical Interests: Artificial Intelligence & Machine Learning
- General Interests: Cooking, baking, consumer tech, exercise, video games, investing, sci-fi
- Languages: English, Hindi, and French
- Always looking for new projects and opportunities