

# John Cioffi

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## EDUCATION

**Northeastern University**, Boston, MA

Sep. 2022 - Present

**Khoury College of Computer Sciences**

*Candidate for Master of Science in Computer Science*

*Expected Dec. 2023*

Courses: Computer Systems, Computer Networking, Mobile App Development, Database Management Systems, Information Assurance, Computer Graphics

Honors: **GPA: 4.00/4.00**, Dean's List, President of Club Baseball Team

**Northeastern University**, Boston, MA

Sep. 2018 - May 2022

**Khoury College of Computer Sciences**

*Bachelor of Science in Computer Science and Mathematics*

*May 2022*

Courses: Software Engineering, Artificial Intelligence, Object Oriented Design, Algorithms, Theory of Computation, Data Science, Linear Algebra, Dynamical Systems, Differential Equations, Probability & Statistics

Honors: **GPA: 3.99/4.00**, Dean's List, Dean's Scholarship Recipient

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## TECHNICAL SKILLS

Languages: *Proficient:* Python, Java, SQL, TypeScript, C#

*Familiar:* JavaScript, C, C++, React, HTML, CSS, Scala, MATLAB, Racket, ACL2s

Software/Tools: Git, MongoDB, DynamoDB, AWS, GCP, Docker, Heroku, Datadog, BloomRPC, Jenkins, CircleCI, Redis

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## WORK EXPERIENCE

**Sandbox Northeastern**, Boston, MA

Aug. 2021 - Present

*Full Stack Developer*

Your Eye and AI Course Modules: *a-eye.sandboxnu.com*

- Improved the comprehensibility of computer vision course modules by incorporating professor feedback
- Utilized React and Tailwind to enhance demos for topics like Gaussian blur and the histogram of gradients

Husky Habits

- Designed social-pressure-driven social media app in an Agile setting to increase user habit consistency
- Implemented Google OAuth support with PassportJS to manage user tokens and authentication flow

**Chewy**, Boston, MA

Jul. 2021 - Dec. 2021

*Backend Software Engineering Co-op*

- Expanded features in pet health microservices to support new prescription matching logic for related products
- Automated load testing scripts with Gatling Frontline to gauge service availability during simulated peak traffic
- Monitored service health using Datadog/Splunk to evaluate latency and confidence level for new releases
- Adjusted prescription field calculations on PUT/PATCH requests to preserve consistency across v1 & v2 endpoints

**Blueport Commerce**, Boston, MA

Jul. 2020 - Jan. 2021

*Software Development Co-op*

- Architected Payflow Pro integration through secure tokenization API to replace deprecated endpoints
- Enhanced cloud-native microservices to support additional 3<sup>rd</sup> party payment providers to onboard a new client
- Lead scrum meetings to sustain team organization and communication on project progress

**Self-Employed**, Wellesley, MA

Aug. 2016 - Mar. 2020

*AP Computer Science Teaching Assistant, STEM Tutor*

- Compiled supplemental exercises with answer keys and held office hours to further academic progress
  - Instructed high school underclassmen in Java, math, physics, and chemistry, improving test scores by up to 15%
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## PROJECTS

**Custom Content Delivery Network**

- Deployed DNS and HTTP servers on remote machines with a web cache based on Zipf popularity distribution
- Leveraged active measurement and geolocation techniques to find optimal HTTP replica server based on latency

**Brain Hemorrhage Classifier**

- Experimented with different activation functions with CNN to predict hemorrhage type based on brain CT scans
- Delivered technical presentation using approachable visualizations to evaluate model performance and accuracy