

# NEIL JOHARI — SOFTWARE ENGINEER

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## EDUCATION

### University of Michigan [Ann Arbor, MI]

Sept 2018 – Expected May 2021

*Bachelor of Science in Engineering in Computer Science | 3.714 / 4.0 GPA*

- Current Coursework: Software Engineering, Computer Security, Web Systems
- Completed Coursework: Data Structures & Algorithms, Discrete Math, CS Pragmatics, Intro to Computer Organization

## EXPERIENCE

### [eecs.courses](#) [WIP]

#### Founder of an Online Learning Platform Startup

May 2020 – present

- Developed a reusable & responsive UI library (Adobe XD, SASS)
- Implemented backend and frontend (Ruby on Rails, PostgreSQL, GraphQL, React, Apollo, CSS Modules, Heroku)
- Integrated Stripe to manage product pricing, user subscriptions, and billing (Stripe)
- Deployed an adaptive bitrate video streaming solution (AWS Elemental Media Services, HTTP Live Streaming)
- Delivered a smooth user experience by devising a custom video player with thumbnail seeking (React)

### University of Michigan [Ann Arbor, MI]

#### Undergraduate Instructional Aide for EECS 280 (Programming and Intro Data Structures)

Sept 2020 – present

- Collaborating to deliver a remote version of EECS 280 for Fall 2020

#### Undergraduate Instructional Aide for ENGR 100-960/970 (Intro to Engineering)

May 2020 – present

- Facilitated creation of a remote course for Fall 2020
- Architected and implemented a [marketing website](#) (Adobe XD, SASS, Gulp, GitHub Pages)

#### Undergraduate Instructional Aide for ENGR 100-950 (Intro to Engineering)

Jan 2020 – May 2020

- Directed 2 lab sections with 25 students each
- Produced 7 videos and 5 labs to teach advanced topics in CE and CS (Premiere Pro, LaTeX)
- Managed COVID-19 online transition by producing alternative virtual labs on circuit simulation via LTSpice (LaTeX)

#### Undergraduate Research Assistant

May 2019 – Jan 2020

- Pioneered an [RFID communication library](#) via MFRC522 sensor (C++)

### MBuRST [Ann Arbor, MI]

Jan 2019 – present

#### Project Team Leader

- Conceptualized a weather balloon payload to compare 4 GPS modules for quality and data integrity (Altium, C++)

### Triangle Engineering Fraternity [Ann Arbor, MI]

Sept 2019 – present

#### Website Developer

- Led design and implementation of [new website](#) (Ruby on Rails, PostgreSQL, Heroku)

### Syosset High School [Syosset, NY]

Sept 2014 – June 2018

#### Website Developer

- Spearheaded an [ADA-compliant website](#) by surveying faculty & students for website needs (RoR, MongoDB, Redis)
- Responsible for [280+ commits with 24,000+ changes](#)

## PERSONAL PROJECTS

- [Spacecat](#): Designed software to read & serialize weather balloon measurements, utilized by MBuRST (Protobuf, C)
- [Scram](#): Conceived an attribute-based access control system (Ruby, MongoDB)
- [AutoBroadcaster+](#): Authored a Minecraft server-wide scheduled broadcasting plugin that was downloaded 228k+ times (Java, Kotlin)

## ADDITIONAL

- Languages: C++, C, Ruby, Java, Python, MATLAB, GraphQL, ES6 JavaScript, HTML, SCSS, CSS
- Frameworks/Libraries/API: Rails,RSpec Unit Testing, Solidus eCommerce, React, Apollo, Sinatra
- Tools: Git, Vim, tmux, Heroku, LaTeX, Gulp, Adobe XD, Adobe Premiere Pro, Adobe Audition

## AWARDS

- Dean's Honor List for maintaining above a 3.5 GPA with a minimum of 12 credits per semester (Jan 2019)
- 1st Place at Andromeda for using convolutional neural networks to analyze Alzheimer patients' MRI scans (May 2017)
- Gold Medal at Al Khalfus Math Fair for analyzing video game hours played due to social influence (May 2015)