

# Shardul Joshi

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## Education

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**Rensselaer Polytechnic Institute (RPI)** | Troy, NY | May 2022

- Bachelor of Science in Computer Science (concentration in Artificial Intelligence and Data)
- Minor in Management
- GPA 3.84 – Dean's Honor List
- Upsilon Pi Epsilon (Computer Science Honor Society)
- Notable coursework: Machine Learning from Data, Introduction to Algorithms, Data Structures, Linear Algebra, Graph Theory, Data Science, Introduction to Artificial Intelligence

## Experience

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**Amazon Web Services** | Boston, MA | May 2021 – Aug 2021 | *Software development engineer intern*

- Designed and developed an optimization service for Infrequent Access storage in AWS Elastic File System utilizing various AWS microservices, architecture, and toolkits (Lambda, Simple Queue Service, Cloud Development Kit, etc.)
- Estimated to significantly reduce storage costs, the savings from which can be passed onto customers

**Cadence Design Systems, Inc.** | Burlington, MA | May 2020 – Aug 2020 | *Software engineering intern*

- Worked on feature development for flagship Allegro chip design layout software
- Refactored legacy C/C++ codebase to adhere to company software principles
- Designed and developed color customization tool using C++ and Qt framework
- Added functionality to Allegro scripting framework to enable tutorial recording and replay

**Rensselaer Advising and Learning Assistance Center** | Troy, NY | Feb 2020 – May 2020 | *Tutor*

- Tutored and provided homework help to students in Data Structures course at RPI

**Syntax Solutions** | Andover, MA | Nov 2015 – Jul 2019 | *Co-founder/web-developer*

- Developed online presence for various local businesses (portfolio of projects at [syntax-solutions.xyz](http://syntax-solutions.xyz))

**iOS App for Andover High School Schedule** | Andover, MA | Jul 2018 – Mar 2019 | *Independent app developer*

- Independently developed an iOS app used by students to keep track of 8-day rotation class schedule

**TiE Boston Young Entrepreneurs Program** | Boston, MA | Sep 2017 – Apr 2018 | *CTO role on team of five*

- Bi-weekly workshops with real-world entrepreneurs culminating in a business plan pitch to a VC panel about a software for teachers to automate recommendations on individualized extra help content for students
- Workshop topics included research, marketing, finance, prototyping, presentation, and interpersonal skills

**Konjoian Education Center** | Andover, MA (Now located in North Andover, MA) | Sep 2016 – Nov 2016 | *Intern*

- Gathered requirements, designed, and built the center's website: [www.konjoianeducationcenter.com](http://www.konjoianeducationcenter.com)
- Helped implement new technologies such as online scheduling and custom email, followed by staff training

## Skills

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**Technical:** Python, C, C++, Java, Swift, HTML, CSS, JavaScript, Git, Qt (C++ framework), Prolog, Scheme, Haskell, data structures, object-oriented design, linear algebra, discrete mathematics, computer architecture, algorithms, software design patterns, Microsoft Office, MacOS, Linux, Windows, LaTeX, Agile project planning

**Soft:** writing, organization, team leadership, communication, public speaking, teamwork

**Spoken languages:** English, Spanish, Marathi

## Activities

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**The Polytechnic** | *Associate Copy Editor*

- Write news/opinion pieces for school newspaper at [poly.rpi.edu](http://poly.rpi.edu)
- Previously held: Contributing Editor (senior position), Editorial/Opinion Editor, Associate Editorial/Opinion Editor, Associate News Editor

## Honors

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Rensselaer Leadership Award, Rensselaer Recognition Award, MA State Seal of Bilingual Proficiency