

Ashok Arun

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EDUCATION

CORNELL UNIVERSITY

BS, College of Engineering
Computer Science (Honors)
Dec 2022 | Ithaca, NY

Cum. GPA: 3.78 / 4.0

Major GPA: 3.91 / 4.0

Tradition Fellow: awarded to 3% of the undergraduate population who demonstrate significant work experience, a commitment to campus and community service, and academic achievement.

COURSEWORK

COMPUTER SCIENCE

CS 4820 Introduction to Analysis of Algorithms

CS 3420 Embedded Systems

CS 3110 Data Structures and Functional Programming

CS 2850 Networks

CS 2800 Discrete Structures

CS 2110 OO Programming and Data Structures

MATH

MATH 4710 Basic Probability

MATH 2940 Linear Algebra

MATH 1920 Multivariable Calculus

SKILLS

OVER 3000 LINES:

- Python • Java (JUnit) • Swift
- JavaScript (React / D3) • \LaTeX

OVER 1000 LINES:

- C++ • SQL • Shell • Verilog

AWARDS:

- American Computer Science League Nationalist, (2017, 2018)
- American Invitational Mathematics Examination, (2018 AMC12B-129, 2019 AMC12A-135)

EXPERIENCE

MICRO FOCUS | Systems Software Engineer Intern

Sep 2020 - Present | Cambridge, MA

- Upgraded the Vertica Analytics Platform Geospatial Library [[C++](#), [geos-3.8.1](#)]
- Worked on Integrators Guide for Vertica Analytics Platform

CORNELL CUP ROBOTICS | Full Stack Developer

Sep 2019 - Present | Ithaca, NY

- Developing GUI [[JavaScript](#) [React](#)]
- Integrated robot vision system using QR codes [[Python](#), [JavaScript](#) [D3](#)]
- Created custom front-end programming blocks [[JavaScript](#) [Google Blockly](#), [Python](#)]

F5 NETWORKS | Product Development Intern

June 2019 - Aug 2019 | Billerica, MA

- Worked on functional hardware testing [[Python](#), [Docker](#) / [Kubernetes](#) concepts]
- Developed system health diagnostic test suite [[Shell](#)]

LIGHTHAWK LABS | Product Development Intern

June 2018 - Sep 2018 | Portola Valley, CA

- Developed an android app to filter high resolution microscopic images [[Java](#), [Android Studio](#)]
- Developed an imaging pipeline to stitch and analyze tumor samples [[Python](#), [OpenCV](#)]

COMMUNITY INVOLVEMENT

STEMBUDS | Founder

Sept 2014 - June 2019 | Nashua, NH

- Empowering kids from families with limited resources and encouraging their interests in STEM
- Organized and oversaw 40 volunteers who help 150+ students across 5 elementary schools
- Co-developed IOS game which consists of a variety of math games [[Swift](#)]
- Developed website [[JavaScript](#), [CSS](#)]

INDEPENDENT PROJECTS

CLIENT-SERVER TEXT PROVIDER

Developed a multi-threaded client-server REST protocol with load balancing capabilities to serve lines from a file / database to clients over the network. [[Java](#), [Bash](#), [PostgreSQL](#)]

ASTROIDS ANDROID GAME

Developed Asteroids game [[Java](#), [Android Studio](#)]