

Rohan Jhunjunwala

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Education

University of California, Berkeley — Bachelor of Science, *Electrical Engineering and Computer Science (Fall 2018 – Spring 2020)*

GPA: **4.0** Honors: **Highest Distinction**, Graduated at age 19

Selected Coursework:

Techniques of Data Science[†], Introduction to Artificial Intelligence[†], Database Systems[†], Efficient Algorithms[†], Data Structures[†], Discrete Mathematics[†], Optimization Models, Experimental Course in Mathematics (Proof based mathematics seminar)

[†] Denotes a transcript mark of A+ (leaves GPA unaffected)

Experience

Unicorn ML Stealth Startup — Software Engineer (June 2020 –)

Booz Allen Hamilton — NASA International Space Station Developer Intern (Summer 2019)

- Contributed to C#/MVC web dashboard to track roughly 1000 compliance violations and payloads on the space station
- Designed approximation algorithm, to increase speed 6x and remove CUDA dependence on a raytracing line of site tool (for predicting space-craft visibility and communication).
- Automatically migrated existing records from into an MS-SQL database, and improved automated documentation/analysis.
- Implemented convex hulls and reduced point cloud density to quickly process Monte-Carlo simulations of spacecraft approach.

UC Berkeley Student Tech Services — Web/Mobile Developer (January 2019 – May 2020).

- Used Microservices hosted on Heroku and Google Cloud Platform to augment our historically static application
- Communicated with clients, identified UX enhancements

Berkeley Electrical Engineering and Computer Science — Teaching Assistant, Discrete Mathematics/ Probability (September 2019 – May 2020)

- Equips students with an understanding of probabilistic reasoning and discrete structures including graphs, and finite fields. This prepares engineers to formally reason across domains, especially software.
- First, as a reader, provided timely feedback on homework in a 700-student course (Fall 2019)
- Then (Spring 2020) as a TA taught small group classes, organized productive office hours, analyzed effective assessments and designed equitable rubrics.

Objective

Build world-class solutions.

Skills

Languages: Java, Python, C, C++, C#/.NET

Operating Systems: OS X, Linux, Windows, Embedded Systems

Web: REST/Web Architecture, SQL JS/HTML/CSS, MVC/Razor, Flask, PaaS (Heroku/Google Cloud Platform)

Quantitative Reasoning: Linear Algebra, Group Theory, Graph Theory, Number Theory, Combinatorics, Statistics

Personal Projects

NASA Space-Apps Challenge Finalist:
(Disaster relief Chatterbot)

Y-Combinator Hackathon 2018:
(RSA based Student ID)

Minimax/Alpha-Beta Chess AI
Rendering Procedural Terrain/Objects
Penn-Apps Hackathon:

(Gesture based playlist control)

Custom Interpreter/IDE
Digital Art/ Mathematical Simulations
(Mandelbrot, Physics, Linear PDEs)

ILP Based Routing Solver

Academic Interests

Biologically Inspired Engineering
Computational Geometry
Complexity Theory/Computability
Computational Intelligence Modeling
Stochastic Systems

Recreational Interests

Cal Distance Running Club

1:41:18.96 Half-Marathon time (track)

Puzzling

Code-Golf (Shortest-Code wins)
Recreational Mathematics/
“Competitive Integration”
Board Games and Game Theory

Producer/Consumer of Academic Satire (SIGBOVIK):

sigbovik.org
“Pessimist” Algorithms
mipmip.org/tidbits/pasa.pdf