

# NIRVIK BARUAH

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## EDUCATION

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### Stanford University

*September 2019 - June 2023*

B.S. Computer Science; Minor in Mathematics and Classical Languages. **GPA 4.0**

*Relevant Coursework:* Advanced C++ Programming, Computer Science Teaching, Computer Systems, Object Oriented Programming, Latin.

## EXPERIENCE

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### AI Lab - Brown University Researcher

*Summer 2020*

- Built a literature search engine for geneticists to efficiently retrieve the latest information on genetic mutations and diseases from various scientific publications.
- Scoped project and iterated with professors and relevant stakeholders at the Warren Alpert Medical School of Brown University.
- Python (BeautifulSoup), Node.js, Lucene, Docker, Heroku, Git

### Tech Fellow TreeHacks

*Summer 2020 - Present*

- Building platform to facilitate team formation and ideation for >3000 participants in the first virtual iteration of Stanford's premier hackathon
- Working closely with the co-directors of program to overhaul the current technical infrastructure in the face of challenges presented by COVID-19
- Using MERN stack (MongoDB, Express, React, Node.js)

### Teaching Assistant Programming Methodology

*Spring 2020 - Present*

- Taught students fundamental concepts from sorting to bitmap image processing
- Held weekly classes where I taught problem solving strategies and programming best practices
- Held office hours to debug student code in Python and C++ for over 600 students in Stanford University's largest computer science course

### NanoBio Lab Research Assistant

*Summer 2018*

- Fabricated over 50 smart-diaper sensor systems to increase hospital productivity
- Collaborated with senior research scientists, nurses, and patients to calibrate sensor readings
- Ran clinical trials in Yishun Community Hospital with geriatric patients and analysed results

## PROJECTS

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### TensorFlow Chess Engine

Created a self-learning chess engine using Python and TensorFlow with a neural network in place of a static evaluation function. Implemented an algorithm shell, GUI, and test cases. Wrote findings in an academic paper which compares the effectiveness of a neural network chess engine to an engine implemented with a static evaluation function.

### PoliSpectrum

Co-founded a company at an MIT startup incubator which aggregates online news from multiple political sources and condenses articles into short paragraphs using extractive text summarisation. Served as full-stack developer and primarily used LAMP stack (Linux, Apache, MySQL, PHP).