

Aditya Baradwaj

abaradwaj@berkeley.edu | 310.662.1364

CITIZENSHIP USA

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
BS IN ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE (EECS)
Expected May 2019 | Berkeley, CA
College of Engineering
Cum. GPA: 3.8 / 4.0
Honors to Date

**VIDYA MANDIR SENIOR
SECONDARY SCHOOL**
Grad. May 2015 | Chennai, India

LINKS

Github:// [AdityaB97](#)
LinkedIn:// [adityabaradwaj](#)

COURSEWORK

UNDERGRADUATE

Designing Information Systems I
Introductory Computer Programming
Linear Algebra
Practical Programming
Data Structures
Designing Information Systems II
Amateur Radio Intro and Licensing

SKILLS

PROGRAMMING

Experienced
Python • Java
Scheme • MySQL • \LaTeX
Familiar
JavaScript • HTML • CSS

AWARDS

2014-15

Finalist	National Merit Scholarship
Awardee	AP Scholar with Distinction
Member	The Global Leadership and Education Forum (tGELF)
National	SOF National Cyber Olympiad

EXPERIENCE

INTERNATIONAL SUMMER SCHOOL FOR YOUNG PHYSICISTS 2015 | PARTICIPANT

July 2015 – July 2015 | Perimeter Institute for Theoretical Physics, Waterloo

- Selected through a highly competitive process to spend one month at the Perimeter Institute for Theoretical Physics in Waterloo.
- Learned basic quantum cryptography at the Institute for Quantum Computing at the University of Waterloo.
- Did a project on basic Quantum Physics, Quantum Field Theory, and Quantum Gravity under PhD student Barak Shoshany.

RESEARCH SCIENCE INITIATIVE - CHENNAI | PARTICIPANT

May 2014 – June 2014 | Indian Institute of Technology, Madras

- Investigated the usage of Cauchy Sequences in formulating a definition for the Real Numbers.
- Studied computational complexity under Prof. N.S. Narayanaswamy.

INFOSYS CTY | PARTICIPANT

May 2011 – May 2011 | Infosys, Chennai

- Selected among all the students in the state to spend 3 weeks at Infosys.
- Learned graphics design by programming with ALICE
- Built simple websites using HTML, CSS and Javascript.

RESEARCH

UC BERKELEY SWARM LAB | UNDERGRADUATE RESEARCHER

April 2016 – Present | Berkeley, CA

Assisted in the development of a novel long-term, implantable neural interface systems which operate using ultrasound. I am currently working on mounting carbon fiber electrodes onto the implantable chip.

QUANTITATIVE ESTIMATION OF IGE LEVELS IN HUMAN BLOOD | STUDENT RESEARCHER

Dec 2014 – Jan 2015 | Medall Diagnostic Laboratories, Taramani

Performed IgE assays on multiple human blood samples to determine the connection between Immunoglobulin E and presence of allergy symptoms. Gained some experience in working with the ADVIA Centaur XP Immunoassay System.

PROJECTS

[Q]: AN SMS-BASED QUEUE MANAGEMENT SYSTEM | HACKATHON PROJECT

Sept 2015 - Nov 2015 | Berkeley, CA

- Built a lightweight SMS-based queue management system which delocalizes the process of "waiting in line" by maintaining a virtual queue. Users interact with the queue through SMS, organizers interact through the web UI.
- Built on a simple HTML+CSS+JavaScript frontend, which also performs the queue-related computations. SMS-based user interactions happen through the Twilio messaging API on a Python-based Flask server. Results are retrieved by a POST request sent through jQuery.
- Started at CalHacks, and continued during the Berkeley CSUA Hackathon. Also built an email-based app which uses SMTP.