

# Kunal Gosar

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## Education

**University of California, Berkeley - (Major GPA: 3.9, Technical GPA: 3.82)** **Expected: May 2018**

*Bachelors of Science in Electrical Engineering and Computer Science (EECS)*

*Bachelors of Science in Engineering Mathematics and Statistics*

**Relevant Coursework:** Data Structures (CS 61B); Computer Architecture (CS 61C); Machine Learning (Coursera); Designing Devices and Systems I & II (EE16A & EE16B); Discrete Mathematics and Probability Theory (CS 70); Linear Algebra and Differential Equations (Math 54);

**In Progress Coursework:** Machine Learning (CS 189), Algorithms (CS 170), Multivariable Calculus (Math 53)

**The Leadership Award Scholarship, Cal (Berkeley) Alumni Association**

**International School of Basel, Switzerland**

*June 2015*

International Baccalaureate; High School Diploma.

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## Work Experience

**Undergraduate Researcher, UC Berkeley – Electrical Engineering and Computer Science** *Sep 2016 - Current*

Researcher in Professor Sanjit Seshia's Group (Embedded Systems) – Working on Signal Temporal Logic

Building a framework to generate dynamic controllers – based on BluSTL project

**Verizon Wireless, Network Engineering Intern, Westlake, TX**

*June 2016 – Aug 2016*

Working in Network Database Management (NDBM)

Wrote scripts for data processing and built database components for the network (e.g. FCC document generation)

Developed a tool to scrape IR21 PDFs, validate IPs and write to network database (Saved ~10hrs/week by automating)

Built programs to track data read from IR21s for roaming partners and generate build reports for updating firewalls.

**EECS Course Staff, UC Berkeley – Electrical Engineering and Computer Science**

*Jan 2016 - Current*

Group Tutor and Paid Member of Course Staff for Introductory Electrical Engineering Class (Fall 2016)

Lab Assistant and Academic Intern for Introductory Computer Science Class (Spring 2016)

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## Personal Projects

**vStock Analytics, Co-Founder, Full Stack Developer -** <http://vstock.io>

Built a stock trading game for users to trade stocks on a real-time virtual market. Built a RESTful API for users to build trading bots to use with our platform. We use Machine Learning to mine user data and analyze stock trades.

Built on MEAN Stack: NodeJS, MongoDB, AngularJS. Repository at [github.com/kunalgosar/StockTrade](https://github.com/kunalgosar/StockTrade)

**Personal Website, Hosted at** [kunalgosar.github.io](http://kunalgosar.github.io), Repository at: [github.com/kunalgosar/kunalgosar.github.io](https://github.com/kunalgosar/kunalgosar.github.io)

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## Class Projects

**Bear Maps, Completed as part of CS 61B (Data Structures and Advanced Programming)**

Built a Java webserver to handle rasterizing a map of Berkeley, implemented routing directions using A\* Algorithm

Implemented location search using Trie and zoom in and out using a Quad Tree.

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## Other Activities

**Berkeley Debate Society:** Competed in tournaments at Stanford and Princeton, ranked nationally at Stanford.

**Snowboarding:** Was awarded the Black Level Award, by the Swiss Snowboarding Association.

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## Technical and Language Skills

**Technical Knowledge:** Java, Python, C, MEAN Stack, NodeJS, SQL, HTML, CSS, JavaScript