

Sachin Jain

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Education

Rice University, Houston, Texas

Fall 2014 - Current

B.S. in Computer Science and Computer Engineering, Minor in Business, Class of 2018

Third Year Student with Senior Standing

GPA: 3.78

- *Relevant Coursework:* Algorithms, Operating Systems, Databases, Parallel Programming, Compiler Construction, Digital Systems Design, Robotics Systems, Systems and Signals, Accounting, Finance, AI, Machine Learning, Web Development
 - *Computer Skills:* Java, Python, C, Android, Javascript, HTML5/CSS, Arduino, PHP, AWS, Wordpress
 - *Algorithmic Thinking and Computational Thinking Teacher's Assistant:* Taught complex algorithms such as dynamic programming; graded papers
 - *Finance Teaching Assistant:* Taught finance concepts such as time value of money and stock valuation to students
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Experience

ViaSat Inc., Houston, Texas

Software Engineer

May 2017 to August 2017

- Developed IOS application to monitor connection status of aircraft across various fleets
- Implemented back end to handle HTTPS requests using Apache through Django on Linux VM
- Implemented push notifications using SSL certificates and APNS
- Managed SQL database with several million entries
- Coordinated with 2 other team members to complete project

Cobuild Inc., Houston, Texas

Co-founder and Software Engineer

May 2016 to August 2016

- Chosen as the firm's first software engineer to work in a startup environment
- Created wireframes for Scope of Works via team Sprints
- Developed beta website on EC2 Ubuntu server with Wordpress
- Developed existing and new algorithms based on business strategy
- Coordinated with other departments for wide range of business and technical matters
- Conducted detailed primary and secondary market research for concept validation

Sensorfield, Houston, Texas

Software Engineer

May 2015 to August 2015

- Programmed and tested sensors using Arduino and C to collect various types of data
 - Doubled RF transceiver communication range
 - Developed array compression algorithm that halves the size of array to lower data upload costs
 - Developed algorithm to work with ADC of beam pump sensor to interpret readings
 - Worked on passive infrared/magnetometer security system
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Projects

- **Unix Kernel Variant** – Variant of the Unix Kernel in C that supports context switching between multiple processes, memory management, interrupt handlers, concurrent terminal commands and a filesystem.
 - **Scheduler for compiler** – Compiler in Python that produces a program in the ILOC language for multiple specialized functional units by implementing algorithms to approximate a solution to a NP hard problem
 - **Proxy Server** – Proxy server in C that handles multiple requests and responses asynchronously byte by byte
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Certifications

- International Coaching Federation Certificate of Coaching – 60 hours of leadership coach training and coaching
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Awards & Honors

- Rice University Trustees Distinguished Scholar
 - National Merit Scholar
 - Valedictorian of Brazoswood High School (class size of 550)
 - 2013 Texas Computer Education Association State Robotics Competition Champion
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Extracurricular Activities & Hobbies

- Traveling the world (Europe, South America, Asia)
- Working on cars (I drive a highly customized '97 Land Cruiser) and other machines & building electronic gadgets
- Second Degree Black Belt in Tae Kwon Do as of December, 2013
- Rice Program Council – Coordinate various events around campus