

JAY KHATRI

<http://jaykhatri.net>

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EDUCATION

TEXAS A&M '19

B.S. Computer Engineering

GPA: 3.88

Engineering & University Honors

ACT Composite Score: 35/36

RELEVANT COURSES

CURRENT YEAR

Computer Architecture (w/ ARM)

Linear Algebra

Signals & Systems

Computer Systems

PAST YEARS

Data Structures/Algorithms

Physics (E&M + Mechanics)

Electrical Circuit Theory

Digital Circuit Design (w/ Verilog)

SKILLS

MOST EXPERIENCE

Python, C++, C#,
Circuitry/Electronics

EXPOSURE TO

Java, Linux, JavaScript, HTML/CSS

TOOLS & FRAMEWORKS

Flask, Express (Node.js), ASP.net,
Git, Vim, PyCharm, Visual Studio,
Android Studio, SolidWorks

HONORS / AWARDS

HackRice 2nd Place

HackTX Finalist

FTC World Champion
(FIRST TECH CHALLENGE)

Dean's Honor Roll

TAMU Distinguished Student

ECEN Departmental Scholarship

CONNECT

LinkedIn: /jay-khatri

Github: /jay-khatri

DevPost: /jay-khatri

INTERESTS

Guitar, Piano, Food, Tennis, Hacking

EXPERIENCE

THE BLACKSTONE GROUP | Software Engineering Intern

New York City, NY | Present Summer

- Expanded and deployed a full-stack validation framework for Blackstone's fund calculator in **C# and JavaScript**; optimizes firm-wide data confirmation before quarterly reporting events.
- Designed a user interface in **React.js** to track changes made by fund accountants; developed **SQL** procedures and backend architecture to collect and aggregate supporting data.

NETBOT LABORATORY | Undergraduate Research

Texas A&M University, TX | Spring 2016 – Spring 2017

- Undergraduate Researcher in Dr. Dezheng Song's research group (Computer Science Dept.).
- Built out **android applications** and backend systems for streaming IMU data on mobile devices; used for research on optimizing indoor localization using **sensor data** and **image processing**.

INVOLVEMENT

MICROSOFT | Student Partner

Texas A&M University, TX | Fall 2016 – Present

- Teaching monthly workshops on a variety of topics ranging from hardware to software.
- Designing and developing interactive lessons on modern **web technologies, circuitry, IOT** etc.
- Collaborating with faculty and department coordinators to promote/advertise workshops.

TAMUHACK | Hackathon Organizer | Tech Team Lead

Texas A&M University, TX | Fall 2016 - Present

- Organizer for TAMUhack, Texas A&M University's largest annual **hackathon** (500+ hackers).
- Leading efforts to build software for event efficiency and streamlining of registration processes; systems will service **500+ users** for authentication and real-time application review.

PROJECTS

GREP-JOBS | Flask ♦ WebGL ♦ React.JS ♦ Google Places API ♦ Web Scraping

Pennapps (UPenn) 2017 | **Top 10** | <https://github.com/JohnPhamous/pennapps16-grepjobs>

A visual job search engine that scrapes data from common job sites and renders a personalized, dynamic 3d histogram of the United States. (Additional Prizes: Best use of Data Visualization)

AHEAD | Multi-threading ♦ Circuitry ♦ I/O Filtering ♦ Raspberry Pi ♦ Arduino

MIT Lemelson Competition 2017 | **Semifinalist** | <https://youtu.be/xyM3GCHqeVo>

Sensor-enabled IOT helmet consisting of micro-computers and several sensors (lidar, IMU, etc.). Features: automatic brake/head lights, gesture-based turn signals, and rear-proximity detection.

CHOP | Open CV ♦ Flask ♦ Web-Sockets ♦ iOS ♦ Raspberry Pi

HackTech (Caltech) 2017 | <https://github.com/jamiewq/hacktech-project>

IOT chopping board that incorporates a camera (using OpenCV for computer vision), several onboard sensors and an iOS app to provide recipe tutorials and future recipe suggestions.

NASA S.R.R. CHALLENGE | SolidWorks ♦ Circuitry ♦ Networking ♦ Linux

Fall 2015 - Summer 2016 | <http://wp.wpi.edu/challenge/>

Designed Electronics / Circuitry and SolidWorks models in large scale robotic systems; lead CAD/Electrical Designer for NASA-Sponsored "Sample Robot Return – S.R.R".

GITSTUB | Chrome Extension ♦ JavaScript ♦ GitHub API

HackRice (Rice University) 2016 | **2nd Place** | <https://github.com/jay-khatri/GitStub>

An extension to the Github website that provides smart suggestions for aspiring developers. (Additional Prizes: Best Console/Command Line Application, Best Data Science Project)