






# AAYUSH KUMAR

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 San Jose, CA - U.S. Citizen

## EDUCATION



GEORGIA INSTITUTE OF TECHNOLOGY  
**B.S. in Computer Science: Intelligence & HCI Threads - 3.83 GPA**  
ATLANTA, GA • GRADUATING DEC 2018

## EXPERIENCE



YAHOO: TRIPOD PROJECT  
**Tripod Engineering Intern**  
SAN FRANCISCO, CA • MAY 2017 - AUG 2017

Yahoo's platform for commoditized photo & video storage, serving, enrichment, aggregation, & search

- o **Improved image search parsing accuracy** by broadening search metrics & testing query processing algorithm
- o **Built Tripod Map & Image Viewer UI** in React.js to help visualize EXIF-metadata/geodata & reusable React component internal library



ARON DEVELOPERS  
**Full Stack Rails Developer Intern**  
LOS ALTOS, CA • MAY 2016 - AUG 2016

Real estate developer which focuses on building smart, luxury homes in San Francisco Bay Area

- o **Built a realtime Ruby on Rails data visualization** of net interest on mortgages for all unsold properties/construction sites.
- o **Designed and Implemented SQL** tables for Loans database



COURSEWORK  
**College of Computing Student**  
ATLANTA, GA • AUG 2015 - PRESENT

- o **Knowledge-Based AI** - CS4635
- o **Computer Vision** - CS4641
- o **Intro to AI** - CS3600
- o **Robotics & Perception** - CS3630
- o **User Interface Design** - CS3750
- o **Algorithm Design/Analysis** - CS3510



SMART CITY INFRASTRUCTURE  
**Computer Vision Engineer**  
ATLANTA, GA • AUG 2017 - PRESENT

Working under Dr. James Tsai, Dr. Tony Yezzi to develop city infrastructure monitoring/diagnosis with modern technologies

- o **Developing vehicle detection, categorization, and tracking** system to gather data about traffic flow and behavior patterns using static and dashboard footage
- o **Using YOLO Real-time object system** backed by Tensorflow implementation of darknet and trained on Udacity's Autti dataset



PROJECT RESURGENS  
**AHNA AI/IOT Developer**  
ATLANTA, GA • MAY 2016 - AUG 2017

Georgia Tech's Smart Solar Home & Internet of Things project emphasizing self-sustenance/net zero energy/carbon footprint

- o **Training a classification model of electricity consumption** using outlet reading data to optimize energy consumption
- o **Building cross-platform React Native App** that helps users track electricity & water savings/consumption over time



ITRANS  
**Android Developer**  
ATLANTA, GA • JAN 2016 - MAY 2016

Working with Dr. John Bartholdi to create a forecasting & communication system to optimize bus circulation

- o **Implemented realtime Android broadcasts** of upcoming bus stops, route changes, impending cancellations & weather forecasts
- o **Analyzed accuracy** of bus departure and arrival detection systems

## SKILLS

### LANGUAGES

- o Java
- o Python
- o JavaScript
- o Matlab
- o HTML/SASS/CSS
- o Ruby on Rails

### LIBRARIES

- o SKLearn
- o OpenCV
- o React/Redux
- o ImmutableJS
- o LeafletJS
- o Android SDK

### DEV TOOLS

- o Jira
- o Designs & Mockups (Sketch)
- o Splunk
- o Git/GitHub Workflow
- o Linux/RHEL (SSH)
- o Enterprise Slack/Hipchat

## INTERESTS

### ACTIVITIES

- o **GT Qurbani** - All-Male Nationally Competitive Collegiate Bollywood Fusion Dance Team
- o **Tennis** - Competed in the USTA Men's Singles Circuit
- o **Recreational** - Collegiate Intramural Ultimate Frisbee, Hiking, Rock Climbing, Camping
- o **Musician** - Played Piano for 8 Years & Recorded Covers

### AWARDS

- o **Faculty Honors 2015, 2016** - 4.0 GPA in most recent semester
- o **Dean's List** - GPA avg of 3.0 or higher
- o **2nd** - Cal Berkeley National Speech Invitational (117 competitors)
- o **1st** - University of Pacific Jon Schamber Speech Invitational



Made with React