






AAYUSH KUMAR

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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

- **Improved image search parsing accuracy** by broadening search metrics & testing query processing algorithm
- **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

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



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

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

- **Developing vehicle detection, categorization & tracking** system to gather data about traffic flow/behavior patterns using static & dashboard footage
- **Using YOLO Real-time object system** backed by Tensorflow implementation of darknet & 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

- **Training a classification model of electricity consumption** using outlet reading data to optimize energy consumption
- **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

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

SKILLS

LANGUAGES

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

LIBRARIES

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

DEV TOOLS

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

INTERESTS

ACTIVITIES

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

AWARDS

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