

# Jayanth Mohana Krishna

System Architecture | User Experience | Internet of Things

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## Education

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### MS in Human Computer Interaction

Georgia Institute of Technology, Atlanta GA

Aug 2016 - May 2018

GPA: 4.0

### BE in Computer Science and Engineering

NIE Institute of Technology, Mysore, India

Aug 2010 - May 2014

77% (Equivalent 4.0)

## Professional Experience

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### Graduate Research Assistant

Research Network Operations Center, Atlanta GA

May 2017 - May 2018

- ▶ Worked in Platforms and Services team, designing and developing APIs for student and researcher use
- ▶ Currently involved in porting, containerizing and documenting legacy applications on the Georgia Tech mobile site

### Services Information Developer

Hewlett Packard Enterprise, Bangalore, India

Aug 2014 - May 2016

- ▶ Coordinating with a global team for operations for a suite of mobile apps for retail use for a Fortune 50 client
- ▶ Proactively automated several workflows, resulting in 35% improvement in SLA, 20% jump in process compliance, and vastly reduced FTE hours

## Skills

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### Prototyping

Arduino  
Raspberry Pi  
Paper and foam prototyping  
Autodesk Inventor and SolidWorks  
Sensor interfacing

### User Research

Competitive analysis  
Contextual methods  
Participatory design  
Usability testing

### Mockups

Sketch  
InVision  
Balsamiq  
Axure RP  
Framer.js

### Platforms

Apache  
Docker  
LAMP and MEAN stack

### Programming

Machine Learning  
Artificial Intelligence  
RESTful APIs  
HTML5, CSS3, JavaScript  
jQuery, AJAX  
SQL, NoSQL  
C, C++, Java  
Python, PHP, Bash  
Git, SVN

### Design

Adobe Creative Suite  
Tableau, QlikView  
Bootstrap, D3

### Miscellaneous

Cognitive Science  
Information Visualization  
Interactive Environments  
Automation  
Civic Hackathons  
Data Analytics

## Projects

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### Data Driven Smart Home

- ▶ Discovering pain points in installing, usage and networking of smart home devices, to create a Machine Learning assisted engine and a system architecture for implementers
- ▶ Research and work on communication stacks like Zigbee, Z-wave, Bluetooth etc.,

### Seeing Like a Bike

- ▶ Retrofitted a bicycle with additional sensors to detect surface quality, air quality and proximity
- ▶ System implementation for data collection, relay and communication
- ▶ Collected data will be used to drive policy on improving biking infrastructure in Atlanta

### Interactive Beltline Display

- ▶ Designing an at-a-glance LED display to show the 'vibe' of a neighborhood on the Beltline
- ▶ LEDs are driven through a wireless sensor module measuring light, noise and motion
- ▶ Designed to promote curiosity and connect communities along Atlanta Beltline

### Paperless One Dashboard

- ▶ Designed and implemented a complete operations dashboard with personalized task assignment and service ticket alert
- ▶ Wireframed, designed and developed the front end based on extensive user research
- ▶ Saved hundreds of hours of effort for incident, problem and change managers

## Recognition

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### Convergence Innovation Competition

In socio-technical systems category for Interactive Beltline Display, Georgia Tech

### Process Champion Award, Aug 2014

For Timesheet Reminder tool, Hewlett Packard

### Infosys Project Innovation Award 2014

For Internet Controlled Switch, Infosys Limited

### TCS Tech Bytes Quiz 2013

Zonal and state level technology quiz, BITES and Tata Consultancy Services