

PRASHANTH TIRUPACHUR VASANTHAKRISHNAN

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Education

Northwestern University, Evanston, IL
Master of Science in Computer Science

Sep '17 - Mar '19
GPA 3.83/4.0

Anna University, India
Bachelor of Engineering in Electronics and Communication Engineering

June '13 - April '17
GPA 7.22/10.0

Technical Skills

Languages: Python, C++, Go, Bash

Systems: Kafka, Pulsar, Raft, Docker/Kubernetes, Nginx, jconsole

Web: JavaScript, AngularJS, NodeJS, Karma, Jasmine, Grunt, HTML, CSS, REST, PhantomJS, Selenium

Data: Tableau, Matplotlib, Pandas, Hadoop, MapReduce, Grafana, InfluxDB, SQL, XML/Json, YAML

Other: Balsamiq, Unix, AWS, GCD, Git, SVN, IoT, Jira, Arduino, PyTest

Work Experience

TIBCO Software Inc., Naperville, IL

Member Technical Staff (Full-Stack Software Engineer)

April '19 - Present

- Lead developer for TIBCO's Messaging Manager a predictive, auto-completing command-line interface library
- Part of the open-source team working on Apache Kafka and Apache Pulsar, handling customer escalations

Associate Member Technical Staff – Intern

June '18 - Sep '18

- Built a live-time monitoring suite with visualizations for Apache Kafka using Grafana & InfluxDB
- Enhanced their FTL Messaging Dashboard by adding smart search with regex which could quickly isolate specific parts of their configuration and substantially reduce the number of data pulls from the realm server with complete test coverage

Northwestern University, Evanston, IL

Graduate Student Researcher - AquaLab (www.aqualab.cs.northwestern.edu)

Sep '17 - Mar '19

Advisor – Dr. Fabián E. Bustamante

- Developed a VPN(QUIC tunnel) to enhance InFlight WiFi experience by reducing packet latency with 0-RTT
- Designed an automated HAR based test bench to measure the performance of QUIC VPN on the top 5000 Alexa sites
- Created a live-time data visualization suite for ScaleUp using Grafana & InfluxDB
- Implemented a router level configurable network emulation infrastructure using OpenWRT & TC-NETEM

Graduate Teaching Assistant - EECS - 111 Fundamentals of Computer Programming

Mar '18 - June '18

Shall-I, India (www.shall-i.com)

June '15 - July '17

Co-Founder & Product Head

- Conceptualized a marketplace on iOS and Android for connecting people in need of lifestyle & maintenance services
- Developed feature ideas into detailed specs and collaborated with designer to create mockups

Seglio, India

June '15 - July '17

Co-Founder & Lead Developer

- An Android app developed using Android Studio and Parse which facilitates used book exchange
- Led a three-member engineering team and drove product strategy to gain 1000 monthly active users
- Top 10 apps in the city by Apps for Chennai event and was invited for Google's Mobile Developer Conference in 2015
- Best UI/UX Design award (amongst 200 teams) by the 32 Hour Startup Challenge conducted by SSN, Chennai

Projects and Activities

Gesticulation based smart surface with enhanced biometric security - Anna University, India

Sep '16 - Mar '17

- A product that converts any flat surface into a smart gesture recognition system with the help of digital image processing using Open CV on Raspberry Pi. Enhanced privacy with the integration of fingerprint biometrics
- Awarded the Best Project of the year 2017(out of 120 projects) and a research grant of ₹10000

Forum for Economic Studies by Engineers (Forese) - Anna University, India

Jan '14 - April '17

Vice President & Technical Lead

- Organized Startup weekends and hackathons to cultivate an entrepreneurial culture at the institution

Students' Research Club - Anna University, India

Feb '14 - April '17

Co-Founder & Executive Member

- Nested under IEEE Madras Chapter, we tutored over 300 students in Arduino and 3D Printing