PRASHANTH TIRUPACHUR VASANTHAKRISHNAN

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Education

Northwestern University, *Evanston IL*   *Sep '17 - Mar '19*
Master of Science in Computer Science   *GPA 3.83/4.0*

Anna University, *India*   *June '13 - April '17*
Bachelor of Engineering in Electronics and Communication Engineering   *GPA 7.22/10.0*

Technical Skills

Languages: Python, C++, Go, Racket/Lisp-Scheme
Systems: Raft, Kafka, MapReduce, Docker, Nginx
Web: Javascript, AngularJS, NodeJS, Karma, Jasmine, Grunt, HTML, CSS, REST, XML/Json, YAML, PhantomJS, Selenium
Databases: InfluxDB, MySQL, NoSQL, MongoDB, SQLite3
Other: Unix, AWS, GCD, Git, SVN, IoT, Jira, Grafana, Arduino, Android Studio, Xamarin, PDDL

Work Experience

Tibco Software Inc. *Naperville, IL*
Member Technical Staff (Full-Stack Engineer)   *Apr '19 – Present*
Associate Member Technical Staff– Intern (Full-Stack Engineer)   *June '18 – Sep '18*
- Developed a monitoring gateway for their commercially rolled out Kafka systems by normalizing and storing the JMX data from clients on InfluxDB and integrating with Grafana for visualizations
- Added filtering support for their FTL Messaging Dashboard 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

AquaLab – Northwestern University, *Evanston, IL (www.aqualab.cs.northwestern.edu/)*   *Sep '17 – Mar '19*
Graduate Student Researcher
- Enhance Inflight WiFi experience by tunnelling traffic through a proxy and implementing QUIC protocol on the pipeline which significantly reduces the latency and RTT
- Automate HAR measuring to test the above setup for the top 5000 Alexa sites

Northwestern University, *Evanston, IL*   *Mar '18 - June '18*
Graduate Teaching Assistant - EECS - 111 Fundamentals of Computer Programming

Shall-I, *India (www.shall-i.com)*   *June '15 - July '17*
Co-Founder
- Conceptualized and developed a marketplace to help people connect with trusted professionals to take care of their lifestyle & maintenance services using Xamarin to develop the iOS and Android apps.

Seglio, *India*   *June '15 - July '17*
Co-Founder & Lead Developer
- Gained 1000 monthly active users & named as one of the top 10 apps of the city by the Apps for Chennai event in 2015
- Received best UI/UX Design award by the 32 Hour Startup Challenge conducted by SSN, Chennai
- Invited to the Google for Mobile Developers' Conference, Bengaluru - India

DataTracks, *India (www.datatracks.com)*   *May '16 - June '16*
Technology Team Intern
- Handled XBRL database and worked on improved security measures by disabling all possible peripheral ports and giving only secured remote access to the server via LAN

Myeasydocs, *India (www.myeasydocs.com)*   *Nov '15 - Jan '16*
Development Intern
- Analyzed data retrieval and storage time and developed automated status reports to be sent to the development team
- Analysis of cloud based web services with recommendations on the most suited technology to satisfy their needs

Projects

Gesticulation based smart surface with enhanced biometric security - Anna University, *India*   *Sep '16 - Mar '17*
- Developed 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 a research grant of Rs.10000 and the Best Project of the year 2017(out of 1200 projects)

Leadership Experience

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

IEEE Students' Chapter - Anna University, *India* - Joint Secretary   *June '16 – April '17*