

Arjun Srinivasan

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SUMMARY

I am a first year PhD student pursuing Computer Science at Georgia Tech and am currently looking for research internship opportunities for Summer 2017. My primary areas of interest include information visualization, visual analytics, and natural language processing.

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

- Ph.D. in Computer Science Aug 2016 – Present
Research areas: Information Visualization, Visual Analytics
- M.S. in Computer Science Aug 2014 – May 2016
Specialization: Visual Analytics
Cumulative GPA: 3.83 / 4.0

R.V. College of Engineering, Bangalore, Karnataka, India

- B.E. in Information Science Aug 2009 – Jun 2013
Cumulative GPA: 8.68 / 10.00

EXPERIENCE

Georgia Institute of Technology, Atlanta, Georgia, USA

Graduate Research Assistant Jan 2015 – Present

- Exploring natural language interfaces for data analysis and visualization.
Advisor: Dr. John Stasko
- Developing mixed-initiative interfaces for network modelling.
Advisors: Dr. Alex Endert and Dr. Rahul Basole
- Developed web-based tools for visual exploration and analysis of enterprise ecosystems.
Advisor: Dr. Rahul Basole
- Technology Stack: JavaScript, Python, HTML/CSS

Salesforce.com, San Francisco, California, USA

Software Engineering Intern, Analytics Cloud May 2015 – Aug 2015, May 2016 – Aug 2016

- Designed and developed a visualization system for monitoring and diagnosis of service queues across data centers in a multi-tenant cloud architecture.
- Technology Stack: JavaScript, Node.js, Python, HTML/CSS

Trendwise Analytics, Bangalore, Karnataka, India

Intern Apr 2014 – May 2014

- Developed plug-ins to help construct visualizations highlighting sentiments in social media data.
- Technology Stack: JavaScript, Python

SAP Labs India, Bangalore, Karnataka, India

Associate Developer, SAP HANA Cloud Integration Jul 2013 – Apr 2014

- Worked on R&D of Business Process Integration solutions on the cloud.
- Received the SAP Global Peer Recognition award for Teamwork.
- Developed proof of concepts for database re-factoring and database migration (POCs are now incorporated into the shipped product).
- Technology Stack: Java

GoToPal Inc. (now Calicom Inc.), Bangalore, Karnataka, India

Intern Jun 2012 – Aug 2012

- Worked on proof of concepts in the areas of natural language processing and artificial intelligence to develop cloud-based intelligent personal assistants.
- Technology Stack: Python, Artificial Intelligence Markup Language (AIML)

PUBLICATIONS

A. Srinivasan, and J. Stasko, “NL4DV: Toolkit for Natural Language Driven Data Visualization”, *IEEE VIS '16 (Poster Paper)*, Baltimore, Maryland (USA), Oct 2016.

R. Basole, T. Major, A. Srinivasan, “Sequencing the Enterprise Genome: Interactive Visual Analysis of Multi-Dimensional Alliance Activities of Global Enterprises.”, *IEEE VIS '15 (business|vis|15 Workshop Paper)*, Chicago, Illinois (USA), Oct 2015.

RECENT PROJECTS

- Mixed-initiative Network (Graph) Modeling* Dec 2016 – Present

Developing a tool that lets users rapidly author and explore attribute-based network models based on a given flat table dataset or a given network. The tool uses a mixed-initiative approach wherein users can connect entities they are interested in to see which attributes can be used to connect them.

Advisors: Dr. Alex Endert, Dr. Rahul Basole

Technology Stack: Python, JavaScript, HTML/CSS
- Natural Language Interfaces for Graph Visualizations* Aug 2016 – Present

Exploring how natural language interfaces can be used to facilitate interaction with graph visualization systems. Currently developing a prototype that supports topology-based tasks, attribute-level tasks, and browsing tasks commonly encountered in graph visualization systems.

Advisor: Dr. John Stasko

Technology Stack: Python, JavaScript, HTML/CSS
- ecoxight: Visual Analysis of Multivariate, Temporal Networks* Aug 2014 – May 2016

A web-based platform for visual exploration and analysis of multivariate, temporal graph networks commonly encountered during ecosystem analysis. (<https://ecoxight.com/>)

Advisor: Dr. Rahul Basole

Technology Stack: JavaScript, Python, HTML/CSS
- Tangraphe: Multi-touch Interactions for Graph Visualizations* Aug 2015 – Dec 2015

Prototype tool that allows users to leverage naturalistic multi-touch interactions (one to five finger gestures) to explore a network visualization by selecting sub-networks, comparing links, and modifying the network layout.

Advisor: Dr. Keith Edwards

Technology Stack: JavaScript, HTML/CSS
- PUNGA: A Visual Analytics System for Exploring Text Documents* Jan 2015 – May 2015

A web-based visual analytics system facilitating entity extraction, entity type modification and aliasing, and exploration of connections between entities in a given collection of text documents. (<http://punga.herokuapp.com/>)

Advisor: Dr. Alex Endert

Technology Stack: JavaScript, HTML/CSS, Python
- epheno: Interactive Visual Analysis of Multi-Dimensional Alliance Activities* Jan 2015 – Mar 2015

A web-based visualization tool for visual exploration and analysis of multidimensional, event-based data generated based on alliances involving S&P 100 companies. (<http://entsci.gatech.edu/epheno/>)

Advisor: Dr. Rahul Basole

Technology Stack: JavaScript, Python, HTML/CSS

SKILLS

- Programming Languages*

Most experienced with: JavaScript, Python, HTML/CSS, Node.js, Java, SQL

Familiar with: R, C#, C++

Dabbled in: C, PHP, Perl, Processing
- Libraries/Frameworks*

d3.js, numpy, NLTK, scipy, jQuery, Flask, Express

REVIEWER

- IEEE Computer Graphics and Applications Magazine 2016
- KDD 2016 Workshop on Interactive Data Exploration and Analytics 2016
- Visual Analytics Science and Technology (VAST) Challenge 2015, 2016

ACHIEVEMENTS / AWARDS

- Winner of Salesforce.com’s Analytics Innovation Challenge. USA, 2016
- National finalist of Walmart’s Collegiate Innovators Challenge. USA, 2014
- Winner (1st place) of SAP Osmosis. India, 2013
- Winner (1st runner-up) of SAP BizTech. India, 2012
- Winner of Microsoft India’s Windows 8 hackathon. India, 2012
- National finalist of SAP Dashboard Design Challenge. India, 2011

OTHER SERVICES

- Salesforce.com Campus Brand Ambassador 2016
- SAP Student Ambassador (1st student selected globally) 2013-2015
- Member of the Microsoft India App Review Board 2013-2014
- Microsoft Student Partner 2011-2013
- Joint Secretary for the Rotaract Club of RVCE 2011-2012