

Deepthi Raghunandan

Email: draghun1@cs.umd.edu

Research Experience

Under preparation

Zhe Cui, **Deepthi Raghunandan**, Kartik Krishnan, Leilani Battle, Niklas Elmqvist, Autocompleting Visual Data Analysis by Mining Large-Scale Corpora of Data Science Workflows, March 2019.

University of Maryland Department of Computer Science, Dr. Leilani Battle

Graduate Research Assistant

December 2018

Andrew Fichman, **Deepthi Raghunandan**, Jessican Thompson, Extending Voyager, December 2018.

University of Maryland Department of Computer Science, Dr. Leilani Battle

Student

August 2018

Deepthi Raghunandan, Furong Huang, Latent Variable Models for Transactional Behavior Understanding, August 2018.

University of Maryland Department of Computer Science, Dr. Furong Huang

Graduate Research Assistant

May 2018

Deepthi Raghunandan, Max Ehrlich, Timothy Dunlap, A Banning Protocol for Encounter-Based Communication, May 2018.

University of Maryland Department of Computer Science, Dr. Bobby Bhattacharjee

Student

Work Experience

Aug. 2018- Present

University of Maryland Department of Computer Science, Mr. Fawzi Emad

Teaching Assistant

Led discussion for a group of 132 students which included responsibilities like teaching material, answering pertinent questions and debugging programming problems

Held office hours for three hours a week, where students were helped one on one

Feb. 2017- Feb. 2018

Symphoni, Start-up

Software Engineer II

Helped establish this start-up with a team of 5 to create a loan management dashboard for credit unions

Collaboratively architected an Angular based front-end; and a TypeScript application layer and data layer

Developed the data layer on the Node.JS runtime to interact with a Neo4J Graph DB

Aug. 2014- Jun. 2016

Skype For Business Desktop Client, Microsoft

Software Engineer

Collaborated with designers to develop novel UX solutions with FLEX markup language

Championed for optimal user experiences by developing solutions in the MVVM SFB client stack

Crafted lightweight tools to alleviate test and development pains for team members

Managed work items with JIRA

Jul. 2012- Jul. 2014

Operating Systems Group, Microsoft

Software Developer In Test

Engineered tools based on XML validation to ensure data synchronization between client and server

Automated sign-in and RESTful operations for custom tests

Led partner teams to validate operations of backup, restore, and sync of application data

Performed root-cause analysis on Windows Sync Framework bugs reported

Jun. 2010- Apr. 2012

University of Maryland Institute for Advanced Computer Science, Dr. Ashok Agrawala

Aug. 2017- Jan. 2018

Research Assistant

Engineered real-time system with Android and JEE to construct/convey location using Wi-Fi information

Led a team of students to build an Android app which would convey, among other things, precise campus location based on both Wi-Fi and GPS location

Education

Jan. 2018- Present

University of Maryland, College Park, PhD. Computer Science

Advisor: Leilani Battle

Jan. 2016- Dec. 2016

University of Washington, Seattle, M.S. Computer Science (2 Quarters)

Sep. 2005- Dec. 2011

University of Maryland, College Park, B.S. Computer Science

University of Maryland, College Park, B.A. Economics with Statistics Minor

Computer Skills

Operating systems: Red Hat Enterprise Linux, Windows, Windows Phone, Android

Languages: JavaScript, Python, C#, C/C++, Java, SQL, TypeScript

Runtime Environments: Node

Development environments/editors: Eclipse, Visual Studio, Latex

PaaS: Azure Cloud Services, Heroku

Other

Mar. 2017- Oct. 2018

Literacy Council of Montgomery County

English Teaching Volunteer

Taught two non-native English speakers to write, read and speak in English for two hours a week

Created and customized course work for fourth grade reading/writing ability