Bhanuka Mahanama

Ph.D Student, Old Dominion University, Norfolk, VA

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Tech enthusiast passionate about information retrieval, data science and machine learning. Looking for summer internship (2020) in software development engineering, data science or research and development.

EDUCATION

Ph.D. in Computer Science, Old Dominion University
📅 08/2019 - Present   📍 Norfolk, VA

B.Sc. in Engineering, University of Moratuwa
📅 01/2014 - 12/2018   📍 Moratuwa, Sri Lanka
🏆 First Class Honors GPA: 3.83/ 4.2

Advanced Diploma in Management Accounting, CIMA - UK
📅 08/2011 - 12/2013   📍 Kandy, Sri Lanka

EXPERIENCE

Old Dominion University

Graduate Research/Teaching Assistant

📅 08/2019 - Present   📍 Norfolk, VA
- Research on use of eye tracking for gamification and disease detection/ classification.
- Teaching assistant for CS 361, Data structures and algorithms.

University of Moratuwa

Junior Consultant

📅 01/2019 - 08/2019   📍 Moratuwa, Sri Lanka
- Planned, coordinated, conducted and evaluated Computer Networks, Software Engineering and Industrial Computer Engineering practical sessions for undergraduates.
- Mentored and supervised undergraduate software engineering and final year research and development projects.

Visiting Instructor

📅 08/2018 - 12/2018
- Conducted and evaluated practical sessions for CS 3032, Computer Networks.

Global Wavenet (Pvt) Ltd

Associate Software Engineer

📅 01/2018 - 08/2018   📍 Colombo, Sri Lanka
- Designed, developed and optimized databases for high throughput applications using MySQL cluster.
- Developed plugins and plugin support for data warehousing and data analytics for existing telecommunication products.

Trainee Software Engineer

📅 06/2017 - 12/2017
- Developed high available applications using Erlang, Mnesia and MySQL cluster for telcos.
- Designed and developed databases for high throughput applications.
- Developed plugins to integrate sub-systems with the company product stack.
- Developed front-end applications using HTML, Javascript and Erlang.

ACHIEVEMENTS

- Dean's list distinctions for academic performance of over 3.8 GPA in 6 semesters
- Guru Edutainment Project of the Year (2016)
  % mahanama94.github.io/projects/wytboard
- Runners Up - CodeSprint (2016)
  % mahanama94.github.io/projects/wytboard
- Runners Up - Yaal Geek Challenge (2016)
  % mahanama94.github.io/projects/medpack

SKILLS

- Languages: Java, Python, JavaScript, Typescript, C++, Erlang, PHP
- Databases: MySQL (InnoDB, NDB Cluster), MongoDB, Mnesia, SQLite, Redis, Neo4J, Derby
- Libraries/ Frameworks: Spring, scikit, pandas, matplotlib, pytorch, AngularJS, Angular, Yaws, OTP, Symfony, Laravel, Cordova, Ionic
- IDEs/ Tools: IntelliJ, PyCharm, Visual Studio, WebStorm, PHPStorm, Git, SVN
- Development Platforms: Arduino, Raspberry Pi, Banana Pro
- Platforms: Linux, Windows

PROJECTS

Data-Driven Education
- Researched and developed applications to provide insights to enhance the learning and teaching experience of the stakeholders in the Sri Lankan education sector through the use of data mining and machine learning techniques.

% mahanama94.github.io/projects/data-driven-education
🔧 Python, Scikit-Learn, NodeJS, Angular, Orange

Wytboard
- Developed an online collaboration application for brainstorming with automated entity linking and web based suggestions based on discussion.

% mahanama94.github.io/projects/wytboard
🔧 NodeJS, Socket.io, NLTK

MySQL Monitor
- Designed and developed a tool for monitoring MySQL (NDB Cluster) for issues, errors and overloading and notifying users through subscribed services such as SNMP.

% mahanama94.github.io/projects/mysqlmon
🔧 MySQL, NDB Cluster, Erlang

Cordova Voice Plugin
- Created a Cordova Android plugin for voice commands and interactions through the Google Voice assist API.

% github.com/mahanama94/cordova-voice-assist-plugin
🔧 Ionic, Cordova, Android, JavaScript