MAYANK KATHURIA

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EDUCATION

University of Illinois at Urbana-Champaign, IL Expected Graduation: December 2019
Bachelor of Science in Computer Science and Mathematics Cumulative GPA: 3.69

University of Washington at Seattle, WA September 2015 – December 2016
Bachelor of Science in Computer Science Cumulative GPA: 3.64

SOFTWARE SKILLS

Programming/Scripting Languages: Java, C++, Javascript, Python, MySQL, HTML, CSS, jQuery, C, PHP
Frameworks and Tools: Hadoop, Spark, Firebase, Selenium, GitHub, Subversion

WORK EXPERIENCE

Software Engineering Co-op, Extreme Networks Salem, New Hampshire
Extreme Management Center Platform September 2018 - Present

- Collaborating with the Analytics team to design and implement GUI widgets and features using Javascript and Java
- Debugging issues using JavaScript, Java, XMC and Analytics Engine to provide clients with an impeccable experience of capturing and visualizing data for better insights and business performance

Software Engineering Intern, National Center for Supercomputing Applications Champaign, Illinois
CyberGIS-Jupyter Project April 2018 – August 2018

- Contributed to the HydroShare team by creating an environment using Python that allows users to input jobs parameters, terminate the specified job and submit computationally intensive tasks from Jupyter to the HPC Cluster
- Developed bash scripts in Linux for job templates, a real-time monitor to observe the job status and retrieved and displayed the Structure for Unifying Multiple Modeling Alternatives (SUMMA) output on the Jupyter environment

Topolens Project May 2018 – June 2018

- Installed the required modules on the Keeling HPC Cluster and Docker installation of microservices

Full Stack Developer, School of Art and Design, University of Illinois Champaign, Illinois
Geographic Timelines Project (Advised under Associate Director Stephen Cartwright) February 2018 – Present

- Providing a web platform to help users observe their two and three-dimensional digital model of trajectories and their interconnected timelines with others from various angles and zooms using HTML, CSS, Javascript and plotly.js
- Incorporated features that would allow users to login, add, view, modify, delete and search events
- Stored and updated user's data by integrating Javascript with Firebase Realtime Database

Software Engineering Intern, Genpact New Delhi, India
LoanPath Unified Credit Management Platform July 2016 – August 2016

- Minimized the time squandered on manually browsing web applications by creating Selenium automation scripts
- Ensured the platform runs in every scenario by converting Selenium scripts to Java and modifying the code to help facilitate the passing of different input combinations

RESEARCH EXPERIENCE

Undergraduate Researcher, Illinois Geometry Lab Champaign, Illinois
Data Science and Traffic Patterns Project January 2018 – May 2018

- Identified periodic and anomalous trends by performing data analysis on the parking datasets of San Francisco
- Contributed to data visualization by representing scatter plots on a map with Matplotlib and integrating the instances generated for different timings through Python to create a Graphics Interchange Format
- Enabling users to effortlessly access and understand the traffic geometry by developing a web application

Video as a Sensor Project September 2017 – December 2017

- Detected faces by performing facial recognition using Tensorflow on each frame of the video
- Implemented code to call Python functions from C in order to execute Tensorflow Facial Recognition and Automated License Plates Recognition (ALPR) in a single thread

Undergraduate Researcher, Ubiquitous Computing Lab Seattle, Washington
BiliCam Project January 2016 – June 2016

- Developed the login page and improved the user interface through CSS and Javascript to dispense a better surface
- Enabled data filtering using Python to search features such as race, time period and visual assessments

LEADERSHIP EXPERIENCE

Co-Chair, SIGMOBILE (Association for Computing Machinery) Champaign, Illinois

- Providing users with directions, bus stops and timings by accessing the Champaign-Urbana Mass Transit District (CUMTD) data and developing a Bus Transportation Android app using Java and Android Studio