MAYANK KATHURIA

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EDUCATION

University of Illinois at Urbana-Champaign, IL — Expected Graduation: May 2020
Bachelor of Science in Computer Science and Mathematics — Cumulative GPA: 3.50

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

Relevant Courses: Applied Cloud Computing, Data Structures & Algorithms, Full Stack & Web Programming, Numerical Analysis, Object Oriented Programming, Relational Database Management Systems, Software Design, System Programming

TECHNICAL SKILLS

Programming/Scripting Languages: Java, C++, Javascript, Python, MySQL, HTML, CSS, jQuery, C, PHP
Frameworks and Tools: Hadoop, Spark, Firebase, RDBMS, Android, Tableau, Git, SVN, Selenium, Automation Anywhere

WORK EXPERIENCE

Software Engineering Intern, Synchrony Financial — Champaign, Illinois
Snaphack Application, Data Visualization POC and Robotic Process Automation — May 2019 – Present

- Developing the UI for the Snaphack **Android** app, fixing the compiler and dependency issues while migrating the Snaphack code in **Xcode** from **Swift** 3 to 4 and making **API** requests to offer customer product recommendations
- Created data visualizations using **Python** for Monthly Capacity Metrics to transform data into actionable insights
- Built software bots using **Automation Anywhere** to automate the business processes end-to-end

Software Development Co-op, Extreme Networks — Salem, New Hampshire
Extreme Management Center Platform — September 2018 – January 2019

- Collaborated with the Analytics team to design and implement GUI widgets and features using **Ext JS** and **Java**
- Debugged issues using **Ext JS**, **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, CyberGIS Center for Advanced Digital and Spatial Studies — Urbana, Illinois
CyberGIS-Jupyter and Topolens Project — April 2018 – August 2018

- Assisted the HydroShare team by creating an environment using **Python** that allowed users to input jobs parameters, terminate jobs 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
- 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
Timeline Atlas Project (**www.timelineatlas.com**) — February 2018 – October 2018

- Provided 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 allowed users to login, add, view, modify, delete and filter 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

- Saved 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 - University of Illinois — Champaign, Illinois
Data Science & Traffic Patterns and Video as a Sensor Project — September 2017 – 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
- Detected faces by performing facial recognition using **Tensorflow** on each frame of the video
- Implemented code to call **Python** functions from **C** to execute Facial and License Plate Recognition in a single thread

Undergraduate Researcher, Ubiquitous Computing Lab - University of Washington — 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

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