# 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: 3.46

**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, Numerical Analysis, Object Oriented Programming, Relational Database Management Systems, Software Design Studio, System Programming, Web Programming

## TECHNICAL SKILLS

**Programming/Scripting Languages:** Java, C++, Javascript, Python, MySQL, NoSQL, HTML, CSS, jQuery, C, PHP
**Frameworks and Tools:** Hadoop, Spark, Firebase, RDBMS, Android, Selenium, GitHub, Subversion, 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 3.0 to 4.0 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* — 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 and Java 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 modified the code to help facilitate the passing of different input combinations

## RESEARCH EXPERIENCE

**Undergraduate Researcher, Illinois Geometry Lab** — 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** — 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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