# Pragya Chauhan

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## QUALIFICATIONS PROFILE

Accomplished, technically-sophisticated Computer Engineering Graduate with relevant education and experience to succeed in a software development role.

- Highly-skilled communicator and team player with a proven track record of efficient problem-solving, meeting challenging deadlines, and quickly grasping new ideas and skills.
- Broad knowledge of various technologies and design concepts including object-oriented analysis, algorithms, and graphical application interfaces.
- Demonstrated proficiency with a number of programming languages, specializing in C++. Commended by professor for speed, accuracy, and ability to code with a high degree of performance and efficiency of memory.

**Core Technologies**:

**Programming Languages**: C++, Python, Processing, SQL, CUDA, MATLAB **Web Technologies:** Markdown, HTML, CSS, Javascript
**Tools:** Salesforce, Tableau, Infromatica, Talend, Tableau, QlickView Visual Studio **Databases:** Oracle, MySQL
**Collaboration & Productivity**: Slack, Zoom, Trello, Asana, Basecamp, Overleaf, Outlook, MS Office, G Suite

## EDUCATIONAL BACKGROUND

**Master of Science in Computer Engineering with Thesis – 05/2020**
Stevens Institute of Technology, Hoboken, NJ

**Bachelor of Engineering in Electronics – 06/2017**
Madhav Institute of Technology and Science, Gwalior, India

## EXPERIENCE HIGHLIGHTS

Stevens Institute of Technology, Hoboken, New Jersey
Graduate Researcher, Honor Research Program **(Python, Scikit-learn, NumPy, Pandas Machine Learning, Google Colab)** 5/2019 – 7/2019

- Produced innovative tool to predict heart disease and classify patients based upon Framingham heart study. Prepared data, selected tool features, and split components to perform evaluation using a logistic regression model
- Achieved 88% accuracy in categorization of patients as high- or low-risk

Accenture, Pune, India
Salesforce Administrator, Application Development Associate **(Informatica Power Center, Salesforce, ANT, git, Tableau)** 7/2017 – 7/2018

- Performed all Salesforce.com administrative work including daily migration of configuration and code into sandbox and production environments, monitoring of dashboards and security, and processing access approvals
- Employed both Lightning and Classic platforms to create page layouts, rules, email templates, custom buttons and links, workflows, and processes. Implemented agile methodologies to meet customer requirements

## ACADEMIC HIGHLIGHTS

GPU Acceleration for Genome Read Mapping (**C++, Algorithms, CUDA C, AWS, Linux**)

- Completed Master's Thesis by devising a solution to solve DNA read-mapping issue in bioinformatics. Implemented string matching algorithms in sequential and parallel manner, increasing speed by a factor of 13 for KMP and 7 for Boyer Moore and KMP algorithm

Library Management System **(C++, OOP, CLion)**

- Developed robust software named Kitaab to store and efficiently manage a school library. It uses objects, classes, strings and file handling to provide login, search, return, borrow and fine charging system

Dashboard Application for a Hospitality Service **(QlickView, Talend)**

- Optimized operational data for hotel, increasing efficiency by 35% through dashboard application visualization displaying availability of staff and amenities for guests

Space Invader **(Python, Pygame module, Pycharm)**

- Engineered a sophisticated fixed shooter space invasion game featuring a player ship with shooting functionality and descending alien targets

Flappy pong (**Processing graphical language**)

- Developed an engaging combination of Flappy Bird and Pong; incorporating concepts of game development including gravity, collisions, score keeping, multiple screen handling and keyboard/mouse interactions