# PRABIN KUMAR SHRESTHA

SOFTWARE DEVELOPMENT ENGINEER

**www.prabinkumarshrestha.com**

As a software development engineer with hands of experience in the field, I have cultivated a profound passion for technology and a dedicated interest in artificial intelligence.

My career has been marked by a relentless pursuit of learning and a strong work ethic. I eagerly embrace new challenges and emerging technologies, consistently expanding my skill set.

## CONTACT INFORMATION

- +1 709 327 5002
- prabin2026@gmail.com
- 39 Prescott Street, St. John's, NL, A1C 3S5
- linkedin.com/in/prabin-kumar-shrestha-76539a195
- https://github.com/prabinKshrestha

## SKILLS

**Programming**

C# | .NET | Entity Framework | JavaScript | TypeScript | Angular, Angular Material | React | Python | Pandas, NumPy | Matplotlib, Seaborn | Fast API | Laravel | PHP | HTML | Tailwind CSS | CI-CD

**Database**

SQL Server/MSSQL | PostgreSQL | MySQL | MongoDB | Redis Cache

**Cloud Services**

Rackspace | Azure Services: Azure Queue, Azure Blob Storage, Azure Cache for Redis, Azure Functions, Azure DevOps

**Software**

Visual Studio | VS Code | Jet Brains IDE | GIT/TFS | SSMS | Azure Data Studio | Jupyter | Robo 3T

**Leadership**

- Lead a team of **Athrill Technology**
- College Basketball Captain (2016-2019)

**Soft Skills**

Good Communication | Problem Solving | Decision Making | Research | Analysis

## ATHRILL TECHNOLOGY

**Leader | 12/2019**

- Founded the team to teach programming in real application, foster skill development, and drive innovation.
- Led a cross-functional team, sharing expertise with over 5 new developers - fresh students of undergraduate.
- Orchestrated software development using SCRUM methodology and employing different technologies

## EDUCATION

**Memorial University of Newfoundland (MUN)**, **Canada**
Master of Applied Science in Software Engineering | 09/2022
- GPA 4.0 with 96.1 average

**Thapathali Campus**, **Tribhuvan University (TU), Nepal**
Bachelor in Electronics and Communication Engineering | 11/2015-08/2019
- Capstone Projects
  - **IOT based Smart Mirror** (Python, NumPy, Open CV - Face recognition, Web Application - PHP, JS, Raspberry Pi)
  - **Alcohol Detector with Vehicle Controlling and GPS Detection** (C, WinAVR, GPS, GSM, ATmega32, Alcohol Sensor, Motor Driver)

**St. Xavier's College (SXC)**, **Nepal**
Higher Secondary - Science - Physics and Biology | 2013-2015
- Distinction

**Lalitpur Madhyamik Vidhyalaya (LMV)**, **Nepal**
Secondary school | 2013
- Distinction
- Batch Topper

## EMPLOYMENT HISTORY

**Graduate Assistantship**
Memorial University of Newfoundland | 09/2023 - 12/2023
- Teaching assistant for course Comp 2002 - Data Structure and Algorithm

**Software Consultant - Part Time**
Mobile Guest Ltd | St. John's, NL, Canada | 07/2023 - Current
- Bridging the gap between stakeholders and development team as a Product Owner, by planning and designing the software features requested by the stakeholders

**Software Consultant - Intern - MUN Experience Venture**
Axe Booker | St. John's, NL, Canada| Winter Term, 2023
- Provided detailed suggestions and recommendations to optimize the platform's back-end functionality and user experience.

**Software Developer - Freelance**
Riham of Information Technology | 04/2020 - 02/2023
- Projects: Twitter Analytic Service | Dating App Services
- Responsibility
  - Developed services for multiple projects and also for live chat using .NET, SignalR, and Firebase
  - Solved issue of optimization of database query

**Software Development Engineer (SDE)**
Dolphin Dive Technology Pvt. Ltd. | 09/2019 - 08/2022
- Projects: Workflow Management System - Pension Pro, Harrisburg, PA
- Responsibility
  - Redeveloped windows desktop application in web platform using .NET and Angular in a team, resolved bugs, and managed database
  - Helped new developers about the underlying business specific knowledge, project structure, development and debugging
  - Integrated Redis and different Azure services to handle big data and maintain performance

**Web Developer**
Nectar Digit Pvt. Ltd. | 11/2018 - 07/2019
- Projects: E-commerce websites | Job Portal - CCS Nepal
- Responsibility
  - Design, plan and develop the web application according to the business requirements with constant communication with client

## CERTIFICATES 🔗

- **Advanced Learning Algorithms**
  - Coursera - DeepLearning.AI, Stanford University
- **Supervised Machine Learning: Regression and Classification**
  - Coursera - DeepLearning.AI, Stanford University
- **AI For Everyone**
  - Coursera - DeepLearning.AI, Stanford University
- **Python for Data Science, AI & Development**
  - Coursera - IBM
- **Databases and SQL for Data Science with Python**
  - Coursera - IBM
- **Introduction to Data Science in Python**
  - Coursera - University of Michigan
- **Python Project for Data Science**
  - Coursera - IBM
- **The Data Scientist's Toolbox**
  - Coursera - Johns Hopkins University

## EXTRA ACTIVITIES 🔗

- Judge of Information Communication Technology (ICT) Fair held at Lalitpur Secondary Boarding School (LMV)
- Co-Ordinator of several major basketball tournaments
- Captain of a College Basketball Team (2016-2019) - Thapathali Campus, and led the team for Several Runner Up awards
- Won Top Scorer Award in a basketball tournament
- Volunteer Tech Gyan 2.0 event in the undergraduate
- Volunteered as an Official in intra-college tournament
- Volunteered Coaching Girl Basketball Team of Thapathali Campus
- Patrol Leader of one of the junior Scout Team in school at age 13, and volunteered in managing the mass in Krishna Janma Astami - a big festival in Patan Durbar Square, Nepal

## PROJECTS 🔗

**Robot Vacuum Simulator**
Visual simulation for robot vacuum by allowing user to configure the simulation playground

**Mutation Testing Term Paper with Implementation**
Mutation Testing term paper (testing quality of test cases), and implementation using C#

**Data Visualization Project**
Memorial University Data Analytics project to help the company improve - Python, Matplotlib, Seaborn, Pandas, NumPy

**Pension Pro**
Workflow Management System in the USA - researched and developed new features, production bugs fix, assisted juniors - .NET, Angular, Azure Services, Redis, MSSQL, jQuery

**IOT based Smart Mirror**
Face recognition to show content of the user - Python, NumPy, Open CV, PHP, JS, Raspberry Pi

**Alcohol Detector with Vehicle Controlling and GPS Detection**
Alcohol Detector vehicle prototype that sends GPS location to the authorized body - C, WinAVR, GPS, GSM, ATmega32, Alcohol Sensor, Motor Driver

**Dating App Backend Service**
Created backend service for dating app which had complex relations between entities - created complex SQL queries to solve the problem of long time consumption by complicated reading time - C#, .NET, MSSQL

**Learn Nepal**
Learning Platform by own team Athrill Technology based on Nepal which is under development - led a team for whole process: planning, design, database, backend, and frontend - NET WEB API, MSSQL, Javascript, Typescript, Angular, Angular Material, Flutter, Dart, Figma, Azure Devops, CI-CD, HTML, SCSS

**CCS Nepal - Job Portal**
Multi-vendor Job Portal based on Nepal - completed whole application alone - PHP, Code Igniter, MySQL, JavaScript, jQuery, AJAX, HTML, CSS

**Capital Nepal - News Portal**
Popular News Portal of Nepal - supported colleague developer in the software development - PHP, Code Igniter, MySQL, JavaScript, jQuery, AJAX, HTML, CSS

**Website of Athrill Technology**
A fully dynamic responsive website of my team "Athrill Technology" - designed, planned and distributed the tasks among the team to work on SCRUM process - C#, .NET Core WEB API, Javascript, Typescript, Angular (Angular Universal Integrated), MSSQL, HTML, SCSS

**Inventory Management System**
Mobile application to manage the personal transactions (along with data visualization) and card information (with QR Code) - Designed, Planned and developed the software - Flutter, BLOC Architecture, .NET - WEB API, MSSQL

**Flutter Chat Application**
A demo mobile application to demonstrate chat features using SignalR - Flutter, BLOC Architecture, SignalR

**.NET Web API and Angular Demo Project**
A demo project to show the design pattern of .NET and Angular (synced with each other) - C#, .NET, Entity Framework, MSSQL, Angular

**More Projects**