

POURUSH SHRESTHA

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PROFESSIONAL EXPERIENCE

Graduate Assistant, DEPARTMENT OF COMPUTING SCIENCES, Villanova, PA **August 2017-May 2019**

- Built a Super Heterodyne Receiver Simulation Software for educational purposes for Astronomy Department.
- Tutored more than 55 students in Algorithms and Data Structures, Web Development and Architecture Design.

Software Engineer, SEELOGIC INTERNATIONAL, Nepal **February 2017-August 2017**

- Increased development team efficiency by more than 20% by discovering a toolbox named XRM and using it for the project solutions.
- Improved case solving ratio of the company by 2 times solving 10 cases per week.
- Used Scribe Insight Tool to migrate the large database to CRM Online with the help of the scripts.
- Worked with a team of 4 people in the initial research, implementation, and customization of the requirements, and developing a complete business solution.

Software Engineer, CG ELECTRONICS, Nepal **October 2015-March 2016**

- Developed a product design as well as implemented MVC pattern to build a web-based application which was used for tracking the retailer businesses having CG mobiles.
- Worked as a front-end developer in a small, agile team, testing, debugging and adding features in many levels of the codebase. Followed best practices of software development to build the product.

Junior Developer, ROBOTICS ASSOCIATION OF NEPAL, Lalitpur, Nepal **August 2014-August 2015**

- Conducted mentorship program for 10+ volunteer students about the basics of Arduino Board.
- Involved in designing and prototyping of the responsive web design before the implementation phase.

EDUCATION

Master of Science in Software Engineering **August 2017-December 2019(Graduating)**

Villanova University, Villanova, Pennsylvania (Current GPA: 3.73). Courses include Software Engineering, Requirement Engineering, Software Studio, Object-Oriented Programming, Software Design and Evolution, DBMS, Software Testing.

Bachelor's Degree in Electronics & Communication Engineering

September 2011-September 2015

Tribhuvan University, Kathmandu, Nepal (GPA 3.70).

RELEVANT PROJECTS

- **Smart-Brain:** Built a full web-based project where you can detect the face of a human image with the help of a CLARIFAI API. Built the frontend using React.js and backend using Express framework, Node.js and PostgreSQL database. Deployed all major components frontend, backend and database in Heroku.
- **Robo-App:** Built a Robot application using React where you can find the details of the robot you want to get. Used Robohash and JSONPlaceholder API to fetch data from the frontend. Also incorporated Unit, Integration, Component and Regression testing of the application.
- **Super Heterodyne Receiver Simulation Software:** Built a software for Astronomy department which was used for analyzing the incoming signals behavior. Implemented using JavaScript/jQuery and some external libraries.
- **JUMBLE:** Worked in a collaborative team to develop Jumble a word guessing game with various features using React for the Front-end, and NodeJS, Mongo DB and Express for the back-end and the database.
- **SMART SALES TRACKING SOFTWARE:** Developed a web-based application using C# and .NET framework which was used to track the retailers of the CG Mobiles. Integrated the Google Map API in the UI to display the location of the retailers where mobiles were found.

CORE COMPETENCIES

- **Languages:** (*proficient*): Java, JavaScript (React.js), Node.js, Python, HTML/CSS (*familiar*): C#, SQL.
- **Frameworks:** (*proficient*): jQuery, Bootstrap, Express (*familiar*): Spring.
- **Tools:** (*proficient*): Git, GitHub, HTTP, RESTFUL APIs (*familiar*): Jenkins, Heroku, AWS.
- **Hard Skills:** Quality Assurance (QA), Testing, Prototype (Framer).