PRATIK GOSWAMI

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Currently a Graduate Student at University of Washington, Bothell. I am actively looking for an opportunity in Software Development, Mobile Application Development, Web Development or Game Development.

SKILLS

Programming:	Python, C++, C#
Web Development:	HTML, CSS, JavaScript, JQuery, Twitter Bootstrap, Django, SQL, React JS
Mobile Development:	Android, Kotlin
Game Development:	Unity, C#
Middleware:	IBM Integration Bus, Websphere Message Broker, Websphere Message Queue, ESQL
IDEs:	Visual Studio, Visual Studio Code, Sublime Text
Tools:	Git, AWS CodeCommit, Trello, Jenkins, Soap UI, Postman, Photoshop
Parallel Programming Concepts:	Java MPI, MapReduce, Hadoop

WORK EXPERIENCE

IBM India Pvt. Ltd.   Oct 2016 – Feb 2019
Associate System Engineer (Enterprise Application Integration)
- Developed efficient solutions pertaining to SIM activation and customer reward functionality, to Transform and Transmit messages between several end systems using IBM Integration Bus, Websphere Message Broker and Websphere Messaging Queues.
- Designed and developed a solution to Automate Builds and Deploy executables using Jenkins, Soap UI Apache Ant Scripts & Bash Scripts to improve deployment time by approximately 30 minutes.

EDUCATION

University of Washington, Bothell   Sept 2019 – Present (Expected Aug 2021)
Masters in Computer Science & Software Engineering
Bothell, Washington, United States of America
Courses of Interest: Software Architecture, Advanced 3D Computer Graphics, Mobile Computing
Key Projects: Visual Therapy for Strabismus using Virtual Reality.
GPA: 3.74 / 5.0

Techno India, Salt Lake   July 2012 - May 2016
Bachelors in Technology in Computer Science & Engineering
Kolkata, West Bengal, India
Courses of Interest: Data Structures, Algorithms, Networking, Computer Architecture, Object-Oriented Programming, Database, Computer Graphics, Operating System.

KEY PROJECTS

- **Visual Therapy for Strabismus using Virtual Reality**
  Developing 2 tools for a Visual Toolkit for visual therapy for patients suffering from Strabismus. The tools target Sensory and Motor Fusion using Virtual Reality to assist Dichoptic Binocular Vision. The tool was created as a part of a larger toolkit using Unity Game Engine using C#.
- **Personal Website** (http://prtkgoswami.github.io)
  Designed a website to cater as an extended online resume using HTML, CSS and JQuery.
- **Infiltration VR Game** (https://prtkgoswami.itch.io/infiltration)
  Developed a short Virtual-Reality based game using Unity Game Engine and C#. The player's objective is to infiltrate the enemy base, disable guard robots and retrieve confidential documents.

- **Space Rescue Game (**https://prtkgoswami.itch.io/space-rescue**)**
Developed a short 2D space-based game using Unity Game Engine and C# language, having 3 levels of increasing difficulty where the player controls a space craft destroying or avoiding obstacles to get to the goal planet.
- **Welcome Dashboard (**http://prtkgoswami.github.io/repo/resources/redirects/react_dashboard**)**
Developed a Dashboard using React JS, HTML, CSS and JavaScript. The Dashboard uses API calls to display an inspirational quote, a 5-day weather forecast and trending news.
- **Ant Colony Optimization for Travelling Salesman Problem**
Parallelized Travelling Salesman Problem using Ant Colony Optimization implemented using Java MPI. The algorithm ran approximately 3 times faster when tested on 4 computing nodes at 2000 iterations. The project was a part of coursework.
- **Mood Journal Application**
Developing an Android app using Kotlin that aims at helping users log their daily moods/emotions with the context, self-reflect on the analysis of their journal entries to improve their overall emotional health, and provide valuable insight into the user's moods when consulting a professional.
- **Personal Repository** (http://prtkgoswami.github.io/repo)
Designed and developed an online showcase for my web development projects using HTML, CSS and JQuery.
- **Kodi Addon – TV Show Tracker**
Developed an Addon for Kodi Open-Source Software, to automatically mark the episodes as watched that the user has seen. The addon uses "myepisodecalendar.com" as its backend and uses an API from the website to mark episodes.

VOLUNTEERING EXPERIENCE

Microsoft Student Partner   Oct 2014 – May 2016
- Selected as a Microsoft Student Partner/Ambassador for my School.
- Conducted Seminars and Workshops to educate fellow students in Microsoft Technologies, basic web development and basic programming.
- Conducted programming competitions for College Technology Festivals where more than 50 students competed.
- Participated in the Microsoft Student Partner Summit 2015 held at Bhopal, Madhya Pradesh, India, as an attendee. Learned about Industry Engagement and Development of Microsoft products.