

BIKRAMJEET GHURA

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PROFILE

IT student with experience in Information Security, Software Engineering, Database Management & Information Networking.

EDUCATION

- **Bachelor of Science in Information Technology | Information Assurance & Security Option**
University of Washington Tacoma **June 2018**
Award(s)/Honor(s): Scholarship awarded for Annual Dean's List (2016-2017)
Cumulative GPA: 3.34, Major GPA: 3.82
- **Jamnabai Narsee School, International Baccalaureate® (IB) Diploma Programme (DP), Mumbai** **2012 – 2014**

PROJECTS

Systems Analysis & Design (Agile)

- **SoftCare Information System** - A Patient Data Management System, developed with Java (OOP), to allow nursing home employees to chart patient diagnosis data.

Information Assurance & Security

- **Penetration Testing Labs:** Vulnerability Scanning | Password Cracking | Metasploit Exploit | Packet Sniffing/Analyzing
- **Risk Assessment:** Worked on a 6-person team to perform vulnerability assessment, risk analysis & mitigation for Rotator Creative.
- **Linux Security:** Working on a team to evaluate security on CentOS. Tasks include identifying vulnerabilities & performing system hardening through access control, file protection and authentication.
- **Intrusion Detection & Prevention System:** Working on a 4-person team to implement an Intrusion Prevention & real-time alerts mechanism over Snort IDS in Ubuntu Linux environment.
- **Windows Security:** PFSense VPN/Firewall Configuration on Server/Client | Active Directory | Incident Investigation & Response

Programming in Java, C#, C and/or Python

- **C# & .NET – CineLib:** A CRUD application for a video rental service using Object-Oriented Programming. **2017 - Present**
- **Java (Object-Oriented Programming)** - Huffman Coding | Evil Hangman | HTML Manager | 20 Questions Guessing Game.
- **System Programming (C & Linux)** – IP Encoding/Decoding | Pixel Manipulation | Napier's Letters | Stock-Client Database
- **Python – Data Programming:** Conducting statistical analysis on Guardian's 'The Counted' dataset.

Relational Database & SQL

- **Database Design** – Entity Relationship Model for a Fitness Tracking App with a focus on data normalization.
- **Database Development** – Database for a Clinic. Implemented Stored Procedures, Triggers, Functions, Views, Indexes & Backups.

Web Development

- **Firefighter Fitness Information Technology (FFIT), West Thurston Regional Fire Authority, Washington, United States**
Developed a fitness tracking module with Caspio and integrated it within the organization's Joomla website.
- **To-Do List | Fifteen Puzzle | Weather:** Involved HTML, CSS, JavaScript, PHP and/or SQL.
- **Bakshi Ghura & Company, Mumbai, India**
 - Developed a business website for an industrial steel pipes business using HTML5, CSS, JavaScript & JQuery.
 - Worked on a 3-member team to develop an Order Portal using HTML, CSS, Bootstrap, JavaScript, JQuery, PHP & MySQL.

Information Networking Cisco Labs

- Small Network Configuration | Implementing Static & Dynamic Routing

User Interface (UI) / Experience (UX) Design & Software / Product Prototyping

- **Topia Technology, Secrata, Washington, United States:** Software UI/UX Design Consulting and Prototyping.
- **University of Washington Dining App** – A high fidelity prototype for an Android/iOS food ordering application.

RELATED EXPERIENCE

- **Cybersecurity Research Assistant | University of Washington | T-Mobile** **Since Aug 2017**
Involved in configuring security systems such as Honeypots, Intrusion Detection/Prevention Systems & firewalls, developing python scripts and simulating attack scenarios to aid in formulating DoS mitigation strategies. Leading team meetings and helping newcomers to get involved in the project.
- **IT Intern | Spocto, Mumbai, India** **Jul 2016 – Sep 2016**
Involved in coding the Spocto 360 Dashboard Interface. Also set up a relational database with a front-end, to streamline data management using MS Access.
- **IT Intern | Karvy Financial Services Ltd (KFSL), Mumbai, India** **Jul 2015 – Sep 2015**
Involved in engineering a web-based Customer Relations Management System. Activities included testing software functionality, securing against Cross-Site-Scripting and providing tele-support to employees utilizing this software.

INTERESTS & ACTIVITIES

- **Community Service:** Rotaract Club of Bombay North Island, Mumbai, India. **2012 – 2014**
- **UW Clubs:** Grey Hat Computer Security, Squash Team (2014-2015), Washington State Open Squash Tournament (2014).
- **Hackathons:** DubHacks 2014, Zillow Hack Housing 2015, CodeDay 2015, NWHacks 2017