VIDWAT KANADE

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EDUCATION

Sep 2020-2021	**Keele University**
	Msc Advanced Computer Science

- **User Interaction Design:** Acquired knowledge of evaluating websites using user usability heuristics, guidelines for Homepage Usability, Lynch and Hortons Web style, System Usability Scale (SUS) and Research-based Web design and Usability. Learnt about User Personas, card sorting, user-task matrix. Used wireframe and HTML prototypes to create mock-ups for Boots website.
- **Distributed Intelligent Systems:** Gained competency in developing applications to control intelligent systems in a distributed and collaborative context that included programming of robots and intelligent home appliances.
- **Data Analytics and Databases:** Became proficient in handling databases and gained command over R programming language for statistical programming.
- **Research Horizons:** Conducted detailed research on Integration of Machine Learning and Deep Reinforcement Learning in Honeypots for Internet-of-Things devices and came up with a novel research idea of tackling DDoS attacks using ML and DRL for IoT devices.

- **Collaborative Application Development:** Built a fully functional dashboard for an e-conference with a group of 5 students in order to get the right stats to increase the engagement and interaction between the delegates and stands for an online conference. The data used for this web app was taken from the data dump provided by the university. Used dash, plotly, bootstrap components and python to develop this dashboard to present different pie charts, bar graphs with animation, line graphs and group charts for the admin.

- **Web Technologies and Security:** Built a fully functional voting portal for a car rental service that allows the user to register, sign in, vote for the car they choose to purchase and post comments on the cars. All the cars are added using a CRUD application. Votes are stored in the database along with the user's information. Captcha, vote confirmation and password hashing are some of the functionalities used to secure the data in the database. Technologies used to build this web portal are PHP, JavaScript, HTML and CSS and MySQL.

- **Dissertation:** Critically analysed the issues and techniques required for the integration of various formats of data into IoT devices. Built an integrated framework that could pull data of different formats (XML, JSON, YAML) from various APIs from the internet and save it into a relational database. This saved data would then be visualised on a dashboard. MySQL, Flask and Python were used to develop this project. Various libraries like requests, Tkinter, pillow, XML and JSON were used to build this framework.

Sep 2018 – 2019	**Nottingham Trent University**
	MSc IT Security.

This degree was focused on the topic related to Cyber Security, internet programming and computer forensics.
Skills Acquired:

- **Information Security Management**: Analysed information security issues faced by medium and large sized organisations. Conducted a detailed investigation on the Yahoo hack (2013) and submitted a detailed report based on critical analysis, security issue and made recommendations for the prevention of the breach.
- **Internet Programming:** Created a fully functional e-commerce website. It included functionalities are available on the website. Some of them are checking the delivery options on the address, monthly newsletter, email confirmation to the customer about the details of the product of the delivery, adding, deleting and editing the products from the admin page. 3 master pages and 2 SQL servers were used to store the data for the websites.
- **Security Forensics:** Worked with various tools and techniques like Wireshark, Nmap, rkhunter, openssl, fail2ban, etc to secure an Ubuntu server. Worked on an iso image of a victim's computer and using the tools mentioned above, was found the real culprit of the case assigned.
- **Cyber Security:** Critically analysed and presented a detailed report on phishing techniques used by black hat hackers. Also suggested different ways in which a phishing attack can be mitigated and prevented.
- **Network and Cloud Security:** Acquired knowledge of detecting and mitigating cloud-based attacks and addressed the associated security risks. Learnt the use of OWASP in detail.

2013 – 2017	**Mumbai University**
	BSc Software Engineering

- Gained command over programming languages ´Java´ & ´C´, and scripting languages 'python' and 'HTML'.
- Comfortable in use of Linux OS. Can use Kali Linux as an attacking system proficiently and comfortably.
- Developed a fully functional Hotel Management System using Python and SQL. Hotel Management system is a software that allowed restaurants to add, edit or delete the menu (CRUD), clock in using different (added to the database) staff and billing.
- Developed interest in the field of coding and learnt to use programming languages proficiently.

RELEVENT WORK EXPERIENCE

Dec 2021 –	**Junior Software Developer(Core Systems) -** Bet365, Manchester

- Gained experience in finding errors in the existing code, modifying the code based on newer requirements and fixing bugs in the live and the UAT websites.
- Worked closely with the Senior engineers to understand the structure of the business and the website infrastructure.
- Used C Sharp, VB.Net and javascript to author most of the logic.
- Gained experience using technologies such as Git, SQL Server Management Studio, Splunk, Fiddler and Jira (agile based development tool).
- Worked with massive internal libraries and gained experience in OOP.

Feb 2017 – Aug 2017	**Intern Web Developer** – Sunshine Technologies, Mumbai

- Collaborated with clients to develop a good understanding of their requirements
- Developed website and used C#, HTML and SQL for database.
- Developed a website for an NGO (Divya Vidyalaya School for Blind and Mentally Challenged Children) in Jawhar, Thane. (http://www.shreegurudevbss.org.in/)
- Worked with a team of web developers and developed more interest and skills in coding in C# and HTML.

ADDITIONAL PROFESSIONAL QUALIFICATIONS

Aug 2019 – Sept 2019	**Certified Ethical Hacking**
	Pristine Institute, Mumbai

- Undertook 6 months of intense online training in Ethical Hacking.
- Gained experience in using different operating systems to carry out and defend against various cyber-attacks.
- Experienced in various penetration testing tools, creating malwares, vulnerability testing and web hacking.

Feb 2016- Sept 2017	**Aptech Certified Professional Web Developer**

- Gained hands-on experience in web development using C#, HTML, ASP.NET, javaScript, CSS and SQL.

ADDITIONAL SKILLS

Leadership: Strong critical decision making, motivating, team building, delegating and monitoring quality.

Communication Skills: Excellent communication skills, cross-culture liaisons, conflict negotiation and a dynamic, confident attitude working with people of all professional levels.

Interests: Coding, football, fitness, fintech and travelling.

Languages Spoken: English, Hindi, Marathi.

Technical Skills: Proficient in Asp.Net, Python, HTML, CSS, JavaScript, Git, Web3, React, Node, C++. Also, comfortable using many operating systems like Ubuntu, Kali Linux, Parrot OS and Windows and can get acquainted with one quickly. I am extremely interested in new machine learning techniques and like to keep myself updated constantly.

I have also worked on individual projects in python that focus on web scraping, neural networks, web3 and Keyloggers.

- Image classifier in Python:

  Developed an image classifier in python. Keras library in python and TensorFlow was used to train the variables. The image classifier can be trained to identify any kind of images. A small neural network is trained, tested and fine-tuned using VGG16.

- Keyloggers:

  Developed a Keylogger in python that records all the keys that are typed on a victim computer and the saved .txt file is emailed to any desired email address. Various libraries in python were used in this project that include winshell, smtplib, threading and socket.

- Web3:

  Built a fully functional crypto portfolio tracker in React using JS, Solidity and Restful APIs. Once the user enters his wallet address, all his investments linked to that wallet will automatically visualised. Solidity was used to build the smart contracts of this website and JS was used to build the server side back end. This website will be live very soon.

- Shop App:

  Built a fully functional ecommerce shopping app where the customers are allowed to sell their own products. Built this cross-platform app using React Native. Used RESTful APIs as a backend. This app is fully functional. JWT tokens are used to secure the login information and all the passwords are hashed using HS256 algorithm in the back end.

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