Avinash Karhana

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TECHNICAL SKILLS

Programming Languages: Python, JAVA, SQL, Node.js, React.js, PHP, Javascript, C, C++

COMPUTER SKILLS

Selenium WebDriver, Linux, MySql, Postgres, Django, Terraform, SAP CPI

EDUCATION

Master of Science Computer Science Artificial Intelligence Stream Co-op Sep 2022 - Present
University of Windsor, Windsor, Ontario, Canada
- Pursuing research-based master degree

Bachelor of Technology in Computer Science and Engineering Jul 2016 - Oct 2020
Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar, Uttarakhand, India
- Scored a CGPA of 7.58/10
- Graduated with the First Division, and was among the top 6 students of the CSE course in the University

PROJECTS

Py-HTTPS Mar 2021 - Apr 2021
Own, Panipat, Haryana, India
Python
https://pypi.org/project/py-https/
- Built a simple yet feature-rich python HTTPS development server module

iWAF (Intelligent web application firewall) Jun 2020 - Oct 2020
Own, Panipat, Haryana, India
Socket Programming (Python), Machine learning (Keras)
https://github.com/avinashkarhana/iWAF
- Engineered an application layer firewall for web apps using a neural network model to detect SQL injection and XSS attacks

Blockchain-based Digital Certificate Storage and Management Sep 2019 - Oct 2019
Hemvati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand, India
Socket Programming (Python), Hashing
https://github.com/avinashkarhana/Certificate_Data_on_personal_BlockChain
- Implemented blockchain to store digital certificates and transcripts for University's ERP system

Dependency Fixer Jan 2019 - Feb 2019
Own, Srinagar, Uttarakhand, India
Python
https://pypi.org/project/dependency-fixer/
- Created a pip based python module for in-script mass dependency installation

TEST SCORES

IELTS: 7.5 | **GRE:** 151 (Verbal Reasoning), 156 (Quantitative Reasoning)

EXPERIENCE

Graduate Assistant   Sep 2022 - Present
University of Windsor, Windsor, Ontario, Canada
- Performed proctoring and grading duties consisting of grading assignments, labs, quizzes, mid-terms, and final exams
- Performed stated duties for COMP-3150 (Database Management Systems) and COMP-1400 (Intro to Programming and Algorithms I)
- Performed lab instructor duties for COMP-1400 (Intro to Programming and Algorithms I)

Software Engineer   May 2021 - Aug 2022
Replicon Software Inc, Bangalore, Karnataka, India
- Handled full stack integration software development in the MarketPlace Integrations team
- Devised CI/CD Workflows (GitHub Actions and AWS Codepipeline) to streamline the software integration and deployment process
- Developed cloud-based application integrations for SAP, Atlassian and Salesforce using agile methodology

Software Engineering Intern   Jul 2019 - Sep 2019
Coracle Infotech India Pvt Ltd, Ghaziabad, Uttar Pradesh, India
- Designed and coded a PHP based Licensing System for software solutions to facilitate software license
- Operated as the team lead and built an automation bot named "Mass Whatsapp Texting bot" leveraging Selenium WebDriver'
- Managed two subordinate interns on the "Mass Whatsapp Texting bot"

EXTRA-CURRICULAR ACTIVITIES

- Founded University Computer Science Student Research Club (2018) with other 5 members
- Served as a volunteer and passed Certificate B in National Service Scheme (2017 to 2020)
- Constant contributor to the OpenSource community projects, including popular projects such as pip, iRedMail and iRedAdmin

CERTIFICATIONS

Rest API (Intermediate) Certificate, HackerRank   Nov 2020

Problem Solving - Python (Intermediate) Certificate, HackerRank   Nov 2020

GIAC Python Coder (GPYC), TestDome   Jul 2019

Remote Sensing And Digital Image Analysis, Indian Institute of Remote Sensing (IIRS),   Sep 2018
Indian Space Research Organisation (ISRO)

PUBLICATIONS

Data Security Framework for Data-Centers   Jan 2019
International Journal of Computer Sciences and Engineering
https://doi.org/10.26438/ijcse/v7i1.451456
- Devised a new security framework for data centers to address the known flaws in the security policy of data centers by defining security policies including Data classification policy, Data Access rights policy, Remote Access policy, Data transfer policy, Data backup policy, etc.