

Abhisan Ghimire

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EDUCATION

Master of Science in Computer Science

May 2023

Clark University

GPA: 3.97

Member of Alpha Epsilon Lambda, Graduate Students Honor Society

Recipient of Appreciation Award for Outstanding Achievement

Bachelor of Engineering in Computer Science

December 2019

Dr. Ambedkar Institute of Technology

RELEVANT SKILLS

Coursework: Design & Analysis Algorithms, Software Engineering, Survey of System & Programming Language, Computer Architecture, Python Programming, System Programming, Database Management System, Cloud Computing, Android Programming, Software Testing, Blockchain, Internet of Things, Java and J2EE, Unix System Programming, Graph Theory

Certification: Professional Training in Android Application Development from Broadway Infosys, Certified Esports Coach, Certified Esports General Manager

Technical Skills:

Web Technologies	HTML5, CSS3, Bootstrap, jQuery, Laravel, React JS, .NET Framework, Vue JS, Vite, Open Layers, ChartJS
Operating system	Windows, Ubuntu, CentOS, MacOS
Databases	SQL, PostgreSQL, PostGIS
Servers	Apache, Tomcat, Geoserver
Version Control and code editor	Git, GitHub, GitLab, VS Code
IDE	Visual Studio, Android Studio, Eclipse, PyCharm, Jupyter
Data Modeling/Design	ER Diagrams, Use Cases, Class Diagram, Activity Diagram
Languages	PHP, JavaScript, C, C++, Python, Java, C#, Kotlin, Scratch
SDLC Methodologies	Agile Scrum, Waterfall, Hybrid

EXPERIENCE

Boys and Girls Club of Worcester

June 2023 – Present

Education Coordinator

- Guided young learners in understanding website security and user-friendly design principles by analyzing the challenges posed by complex CAPTCHAs on platforms like Roblox
- Mentored 10-year-olds in designing and developing their own websites using HTML
- Guided kids through Scratch programming to design games and built a website for them to play and share

Vastika Inc.

September 2023 – June 2023

Software Developer

- Maintained and enhanced web applications using HTML, CSS, and PHP.
- Utilized .NET to develop new features and support existing systems.
- Collaborated with non-technical staff and ensured reliable application support.

Clark University

March 2022 – May 2023

Software Developer and Researcher

- Created multiple python packages using Pandas, Youtube-DL and TiktokApi to enhance the efficiency of research work
- Used Jupyter and PyCharm with Selenium and BeautifulSoup to test and build codebase for supporting research work
- Created an image processing application using OpenCV and ImageAI to classify and identify video type

Mobile Application Developer and Teaching Assistant

September 2022 – December 2022

- Assisted undergraduate course "Mobile Software Development" as a Teaching Assistant in fall 2022
- Developed minimal application to help students understand the concept of android development using Kotlin
- Built a MediaPipe-based API using raspberry pi for Face and Hand Recognition to support students on their project

Innovative Solution Pvt. Ltd.

January 2020 – December 2021

Software Engineer and developer

- Developed GIS-based software for infrastructure management using Laravel which assisted national telecom regulator at enhancing infrastructure management and facilitating decision-making process
- Engineered self-assessment and online monitoring tools using Laravel, OpenLayers, Geoserver and PostgreSQL with collaboration of medical professionals to aid in the early detection of COVID-19 during initial stages of pandemic
- Developed android and web application using Java, PHP, Chart.js and Apache for Rapid Vulnerability Assessment of buildings assisting in detection of buildings vulnerability and disaster management
- Developed Kobo Toolbox Data integration and manipulation system using KOBO API and Laravel
- Administered servers utilizing WinSCP and Putty on CentOS-based systems, while deploying Apache as the server software

Freelance

Software Developer

- Developed web backend for RSLUP (Risk Sensitive Land Use Planning) using Laravel
- Designed, developed, and deployed website using Bulma, Laravel and cPanel for K&D Farm, and created landing page and inventory system for White Dahlia e-commerce
- Developed custom package for functional contact page that can be integrate with Laravel applications
- Organized "Coding with kids" workshop aimed at teaching coding fundamentals to children using Scratch
- Achieved Ranger rank in Salesforce Trailhead with two months long trail completion

RELATED PROJECTS

- Authored and published a poster on the topic "Understanding Hate Group Videos on YouTube" for the SIGCHI (Special Interest Group on Computer-Human Interaction) conference
- Designed, developed, and published application called "To-Do App" using Android Studio and Google Play Console
- Authored and presented a paper titled "Integrated Library Management System Using Barcode via Android and Web" at the National Conference on Recent Trends in Science, Engineering, and Management
- Released applications on Google Play Store, as RSLUP-Dullu" - a GIS-based survey tool, and "ILMS" - an Integrated Library Management System which was developed using Java, XML and Google Book API
- Developed and maintains web applications daily, ensuring optimal performance for AR Global Hub LLC.
- Involved in a mini project verified and accepted by Dr. AIT on "AUTOMATED ATTENDANCE SYSTEM USING FACIAL RECOGNITION".
- Involved in a main project verified and accepted by Dr. AIT on "INTEGRATED LIBRARY MANAGEMENT SYSTEM(ILMS) USING BARCODE VIA ANDROID AND WEB".
- Published an application called ILMS on Android play stores

Leadership and Involvement

- Delegate of Nepal, Asia-Pacific Youth Exchange program, Manila, Philippines

January 7th – January 19th

Important Links and references

- <https://www.linkedin.com/in/abhisanghimire>
- <https://dl.acm.org/doi/10.1145/3500868.3559465>
- <https://github.com/abhisanghimire/>
- <https://pypi.org/project/NiuLab-crawl-YouTube-screenshots/>
- <https://abhisanghimire.com.np/>
- <https://bgcstemclub.com/>
- https://github.com/abhisanghimire/package_development_for_laravel