

AMAN MAHARJAN

FULL-STACK SOFTWARE DEVELOPER

Phone: +4969299149650
E-Mail: aman.maharjan@talents2germany.de
LinkedIn: www.linkedin.com/in/aman-maharjan/

PROFESSIONAL SUMMARY

A highly skilled full-stack developer with expertise in mobile applications and game development. With experience leading teams and managing AWS resources, notable projects include building apps for real-world applications, such as COVID-19 patient tracking. Over a decade of freelance work with platforms like Toptal and Upwork has involved developing cross-platform apps and web services using technologies like React Native, .NET, and AWS. Holds an MSc in Computer Science, with published research on AI and document clustering, combining technical proficiency with leadership and problem-solving skills.

EXPERIENCE

Toptal (Freelancing), USA

Software Developer

02/2021 – Present

- Developed and deployed cross-platform mobile applications using React Native and TypeScript, delivering consistent user experiences across Android and iOS platforms.
- Utilized Android Studio for debugging, testing, and performance optimization, reducing app crash rates by 35%.
- Integrated applications with cloud-based services using Amazon Web Services (AWS), enabling scalable backend infrastructure and secure data storage.
- Implemented Continuous Delivery (CD) pipelines to automate build, test, and deployment workflows, ensuring faster release cycles and minimized downtime.
- Managed source control and code collaboration using Bitbucket, maintaining high code quality and streamlined version control across remote teams.

IMAFly Solutions, Kathmandu, Nepal

CEO and Co – Founder

02/2020 – Present

- Led a team of three developers to build a web app to track and keep records of COVID-19 patients in Bagmati, Nepal.
- Assisted with the front end of the app using Bootstrap and JavaScript, C#, Razor Pages, Entity Framework (EF) Core, and Identity library for the back end.
- Created different types of charts in the dashboard using Chart.js.
- Managed role-based authentication and authorization using the Identity library.
- Used Trello for project management and collaboration and GitHub for source control.

ENVISION Software, Kathmandu Nepal

.NET Consultant Developer

02/2020 - 04/2023

- Provided consultation services to the company and the clients of the School Management System regularly and occasionally added new features to the app.
- Developed and added multiple features requested by the clients to the school management system software package for over ten years, including work done as a senior developer.
- Created different types of reports in Crystal Reports.
- Produced stored procedures and functions in SQL Server that cannot be implemented easily in LINQ to SQL and where efficiency is important.
- Provided consultation services to the company and the clients of the school management system regularly.
- Migrated the old system used by one of the clients to the new school management system.

CODEILO Solutions, Kathmandu Nepal

React Native Developer

05/2020 - 09/2020

- Developed a React Native app with Redux and Redux Toolkit related to online doctors' appointments where users can select doctors from many hospitals in Nepal.
- Created a React Native app with Redux related to an online laundry pickup and delivery service with driver and customer separation depending on the login role in the same app; collaborated with a co-developer.
- Utilized SVG icons rendered to a high-quality native image format in compile-time in React Native apps.
- Integrated the ability to view PDF documents in a React Native app.
- Merged SMS OTP validation API in the React Native apps.
- Consolidated the authentication and authorization flow, based on roles, in a React Native app.
- Technologies: React Native, Redux, JavaScript, TypeScript, Git, SMS, OTP, Android, iOS, Cross-platform, Mobile, Mobile App Development, Mobile Apps, Front-end, Redux Toolkit, Trello, ES5, Jest, Detox, Software Development, App Development, Mobile Development, Axios, API Integration, Team Leadership, Leadership, GitHub

ENVISION SOFTWARE, Kathmandu Nepal

Senior .NET developer

11/2012 – 02/2020

- Built and maintained the billing portion of the school management system software.
- Maintained and added features to the academic portion of the school management system software.
- Created different types of reports in Crystal Reports.
- Developed stored procedures and functions in SQL Server that could not be implemented easily in LINQ to SQL and where efficiency is important.
- Implemented an SMS-based monthly bill as well as a general notification system.
- Communicated with clients on issues and new features.
- Technologies: C#, Microsoft SQL Server, Crystal Reports, LINQ to SQL, Windows Forms (WinForms), SMS Gateways, SMS, T-SQL (Transact-SQL), SQL, Git, Windows, Windows Desktop, Desktop, Desktop App Development, Windows App Development, Software Development, App Development, .NET, C#.NET, Databases, API Integration, Visual Studio, Visual Studio .NET

TVLINK, Kathmandu Nepal

Senior Web Developer

01/2018 – 01/2019

- Added a user activity history feature (create/update/delete history with old and new values where relevant) to the existing revenue entry system.
- Added a notice board feature, where notices can be created by administrators using TinyMCE WYSIWYG editor.
- Moved the web-app (including the MySQL database) to an in-house CentOS server provided by the client.
- Technologies: CodeIgniter, PHP, JavaScript, CSS, TinyMCE, MySQL, Git, HTML, HTML5, jQuery, Front-end, Back-end, Web, Web App Development, Full-stack, Software Development, App Development, SQL, Databases, Web Development

Upwork, Kathmandu Nepal (Freelancing)

Software Developer

01/2012 - 12/2020

- Served as a creative Swift programmer for an iOS game app using the SpriteKit framework.
- Developed a Unity 3D ARKit game using C# language.
- Built an iPad language learning game for children containing multiple mini-games using Swift, SpriteKit, and SpriteBuilder, which included two phases.
- Maintained a previously developed full-stack app in core PHP, HTML, JavaScript, and CSS. Added requested features by the client, including PayPal integration.
- Created eBay templates using HTML, CSS, and JavaScript.
- Technologies: SpriteKit, Cocos2d, Swift, Objective-C, Unity3D, CakePHP, Slim, PHP, 2D Games, Gaming, iOS, 3D Games, Mobile, Mobile Apps, Mobile App Development, Firebase, Git, Xcode, Unity, Databases, MySQL, Software Development, App Development, Game Development.

WEB SOLUTIS, France (Remote)

IOS Game Developer

02/2016 – 06/2017

- Developed a maze arcade game with Cocos2d, Sprite Builder, Swift, and Objective-C.
- Created 50 levels for the game with varying difficulty levels, including maze type, enemy types, power-up types, and time-based difficulty.
- Implemented a simple yet different movement AI logic for various enemy types.
- Integrated Mixpanel to collect product analytics data.
- Integrated Chartboost and AdMob to show video ads (for in-app monetization).
- Technologies: Cocos2d, Swift, Objective-C, Sprites, Xcode, Games, 2D Games, Gaming, Mixpanel, AdMob, Google AdMob, Git, Software Development, Game Development, Mobile (Tablet), Mobile Development, iOS, iPad, Mobile App Development, Mobile, Mobile Apps, Mobile Game Development

EDUCATION AND TRAINING

MSC IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Tribhuvan

University (Website <https://tu.edu.np>)

2018 Kirtipur, Nepal

BSC IN COMPUTER SCIENCE Amrit Science College

Tribhuvan

University

2009 Kathmandu, Nepal

SKILLS

React Native, TypeScript, JavaScript, Redux, UI Kit, Amazon Web services, Firebase, ASP.Net, React, Crystal Reports, Slim Framework, CI/CD Pipeline, CSS Bootstrap, xUnit, Cocos2D, Docker, EF Core, Express, Git, HTML, Java Swing, Jest, Linux, Microsoft Azure, MobX, Node.js, PostgreSQL, REST, Serverless, SpriteKit, Storybook, MySQL, LINQ to SQL, Redux Toolkit, CakePHP, SQL, SQL Server, WinForms, Github, Bitbucket, Dapper, Gitlab, d3.js, Firestore, Firebase Storage, MVC, Firebase Authentication, Firebase Cloud Functions, MVVM, SwiftUI, C, C#, C++, Java, Objective-C, PHP, Python, Swift, VB6, VB.NET, Objective C, VB.Net, Expo.

LANGUAGES

- English (B2)
- German(A2)

PUBLICATIONS

2018

Evaluating Performance of Nepali Script OCR using Tesseract and Artificial Neural Network

This paper evaluates the performance of Nepali Script OCR using Tesseract and ANN. A dataset of 69 Nepali fonts with the 2,484-character samples of consonants were used in the study. With Tesseract, the overall accuracy of 96% was obtained in the training phase and 69% in the testing phase. Similarly, with ANN, an accuracy of 98% was obtained in training and 81% in testing.

2018

Nepali Document Clustering using K-Means, Mini-batch K-Means, and DBSCAN

Automated document clustering is the process of grouping documents into a small set of meaningful and coherent collections. This research evaluates K-Means, Mini-batch K-Means and Density-Based Spatial Clustering of Applications with Noise (DBSCAN) algorithms, in the context of Nepali documents, using four performance measures: Homogeneity, Completeness, V-Measure and Silhouette Coefficient. Features extraction is done using Term Frequency – Inverse Document Frequency (TFIDF). The empirical results show that Mini-batch K-Means performs better when using TFIDF.

Similarly, in time-constrained environments, the clustering time of Mini-batch K-Means is better than the other two algorithms.