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| --- | --- |
| Tools | Usage |
| PyCharm | IDE to code Python. |
| Visual Studio Code | IDE to code HTML, CSS, and JavaScript. |
| HTML5 | Constructing of the website layout. |
| CSS3 | Control how web pages and user interfaces are laid out, colored, and with other visual components [1]. |
| Python 3.9 | Language for coding the matchmaking algorithm and Machine Learning algorithms. |
| R | Language for developing Artificial Intelligence. |
| Swift | Language for building IOS applications. |
| Kotlin | Language for building Android applications. |
| PHP | Enables cross-platform for adaptation. |
| MySQL | Building, controlling, and primary storage for the database [6]. |
| MongoDB | Caching/intermediate storage for the database [6]. |
| Bootstrap | Helps develop web-responsive elements [2]. |
| PayPal REST API | API to process invoices from PayPal. |
| Ionic | Build and develop IOS and android applications |
| React | Build an interactive User Interface |
| Websocket | allows two-way interactive communication between the user's browser and a server [5]. |
| Apache | Accept directory requests and send information[3] |
| PGP encryption | Encrypt messages between users and data on the database. |
| TLS protocol | Validate security tickets and secure communications between servers |
| Amazon SageMaker | Enables execution of Machine Learning models in Cloud-based systems. |
| TensorFlow | Manage Machine Learning systems [4]. |
| FusionAuth | Authentication for users’ accounts |
| Firebase | Enables developing cross-platform applications |
| Facebook SDK | Social Integration for Facebook |
| Cloud SDK | Social Integration for Google |
| Google Location Services | Locate and display locations of users |
| Google Cloud Platforms | Cloud solution for creating and managing database. |
| Graph API | Design data graphs and charts for analyzation |
| Google Analytic | Analyze, follow, control data |
| PageSpeed Insights | Test website performance. |
| Canva | Illustrate UI layout |
| Github | Enables remote working collaboration. |
| Messenger | Text messaging |
| Discord | Group Meeting platform |
| Google Meet | Alternative group meeting platform |

[1] “Create with CSS | Google Developer Student Clubs,” *Google Developer Student Clubs*, Jan. 16, 2001. https://gdsc.community.dev/events/details/developer-student-clubs-sri-venkateshwara-college-of-engineering-bengaluru-presents-create-with-css/ (accessed Jan. 15, 2023).

[2] A. Zola, “What is a Bootstrap and how does it work?,” *WhatIs.com*, Aug. 01, 2022. https://www.techtarget.com/whatis/definition/bootstrap (accessed Jan. 15, 2023).

[3] “Apache | Definition & Facts,” *Encyclopedia Britannica*, Jan. 10, 2023. https://www.britannica.com/technology/Apache-Web-server (accessed Jan. 15, 2023).

[4] “Introduction to TensorFlow | Machine Learning | Google Developers,” *Google Developers*. https://developers.google.com/machine-learning/crash-course/first-steps-with-tensorflow/toolkit (accessed Jan. 15, 2023).

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[6] Ilanco, “Using MySQL and Mongodb together,” *Stack Overflow*, May 20, 2012. https://stackoverflow.com/questions/10676397/using-mysql-and-mongodb-together (accessed Jan. 15, 2023).