# Developer Tools

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| Category | Tool/Framework/Language |
| Version Control | GitLab/Git |
| Issue Tracker | Trello |
| CI/CD | GitLab |
| Android App | Java |
| Website App | Java with Spring MVC on Amazon Elastic Beanstalk with Tomcat |
| Web-API | Apache CFX with Java on Amazon Elastic Beanstalk with Tomcat |
| Vendor API Importer | Java on AWS Lambda |
| Database | MySQL (or Aurora) on AWS RDS |
| IDEs | IntelliJ  Android Studio |
| Developer OS on Virtual Machine (or VDI) | Linux |

# Third Party Libraries

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| Library | Purpose and Description |
| 3Dorfi | 3D model generation from images  Useful for making the 3d models  Java library? We don’t know enough about this as to whether or not we can take code from this and use it |
| Java 3D | Manipulation for 3D objects in java |
| AliceVision | 3d photogrammetry library that can reconstruct 3d models from images  <https://github.com/alicevision/AliceVision>  downside is it is written in C++ |
| OpenCV | Stands for Open Computer Vision  May have java support  Does 3d model generation and measurement of objects as well as other functions |
| Sumerian | Amazon solution for 3d modeling in the browser. Might be something to look at for replacement candidate for rendering |