Mapendo Pierre

github.com/mapendopndc mpngilin@uwaterloo.ca mapendopndc.io

Skills | Revit • Rhino3D • Grasshopper • C# • Javascript • Python • Dynamo • Forge • VR/AR • Git

experience

iSPAN Princeton, Ontario

Software Developer - Building Framing Technology

Jan 2021 - Apr 2021

- Implemented advanced BIM workflows using Revit, Forge, and Excel APIs to streamline design
- Led developement of a Revit plugin to automate cold-formed steel framing and documentation
- Designed an algorithm to automate the generation of structural bays from building plan outlines
- Worked closely with senior engineers, steel detailers, and management to ensure project success

Ledcor Toronto, Ontario

Virtual Construction Services (VCS) Coordinator

Sept 2019 - Dec 2019

- Led implementation of multi-user VR environment to facilitate mock-up reviews in Unity and C#
- Automated area/volume calculations with Dynamo saving estimating team ~5 hours every week
- Recorded on-site LiDAR scans and analyzed 3D point cloud models for construction accuracy
- 400+ hrs modelling commercial/residential buildings with Revit from plans and specifications

Humber College Toronto, Ontario

Instructional Technology Assistant — Full Stack

Jan 2019 - Apr 2019

- Single-handedly developed a full-stack React.js web app to streamline data collection in 4 weeks
- Created compelling visual reports using Google API to inform departmental decisions
- Offered workshops to introduce new classroom technologies to school faculty

TekWorthy Ottawa, Ontario

Software Developer — Front End

Jan 2015 - March 2015

- Digitalized visuals into interactive web pages using HTML/CSS to enhance client web presence
- Honed impeccable time-management skills to handle strict deadlines with high code standards

projects

Holospace Jun 2020

- Built multi-user AR app in Unity and a website with React.js for collaborative 3D mock-up reviews
- Deployed Node.js REST API to communicate with MongoDB, AWS S3, mobile and web clients
- Configured NGINX reverse proxy to implement microservice architecture and virtual hosting
- Secured sensitive API routes using JWT authentification, bcrypt hashing, and SSL certification

education

University of Waterloo

Architectural Engineering Class of 2023

• 3.75/4.00 cGPA

achievements

2020 Libgen Library Design Competition Shortlist

2018 TimberFever Competition Winner - \$1500

2018 Merits Entrance Scholarship - \$1000