



# ARUN KANAKKASSERY VIJAY

Civil Engineering | OpenBIM | Technology

## PORTFOLIO

[www.arunkvijay.com](http://www.arunkvijay.com)

## SKILLS

- Python	5 yrs
- Ifc, Ifcopenshell, BlenderBIM	3 yrs
- Javascript, HTML, CSS	2 yrs
- Threejs, IfcJs, Xeokit, pyocc	1 yr
- VueJs, NuxtJs	<1 yr
- C, Java, Neo4j, FastAPI	<1 yr
- Blender, FreeCAD, QCAD	5 yrs
- Linux, Bash	5 yrs
- Vim, Git, LaTeX, Awk	2 yrs

## CONTACT

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Kattigenahalli, Bagalur Cross,  
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India - 560063

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[GitHub](https://github.com/arunkvijay): github.com/arunkvijay

[LinkedIn](https://www.linkedin.com/in/arunkvijay): linkedin.com/arunkvijay

## PERSONAL DETAILS

Nationality: Indian  
Marital Status: Married  
Date of Birth: 19/05/1979  
Language: English  
Hindi, Malayalam,  
Kannada & Tamil

## PROFILE

- Possesses a strong combination of programming expertise, & AEC domain knowledge & experience applying computational thinking to optimize workflows
- Demonstrated ability to work independently with minimal supervision, taking ownership of projects & making decisions that drove results
- Led International customer relationships for MNCs & Global Project Teams, delivering increase in customer satisfaction through strategic partnerships & effective communication
- Curious person with a passion for lifelong learning, with a keen excitement in the convergence of BIM & Technology

## PROFESSIONAL EXPERIENCE

### • Ai.K Data Labs Pvt Ltd

*Self Employed*

*July 2023 - Present*

- Developed custom technology solutions to streamline workflows & enhance productivity
  - \* Automated authoring of IFC models directly from 2D CAD using custom innovative solutions thereby reducing error & improving authoring speed by 25% to 50%
  - \* Implemented innovative solutions that exceeded client expectations
- Developed custom solutions using OpenBIM expertise for Prefab & DFMA. Integrated diverse technologies, to bring more than 25% reduction in time including:
  - \* Open-source Python & Javascript libraries
  - \* Incorporated various workflow automations to capture geometry, property & relationships, & time from various formats
  - \* Development in progress towards to incorporating OpenBIM & Web Technologies for all phases of DFMA workflow

## PROFESSIONAL EXPERIENCE

- **Preset Building Systems Pvt Ltd**

*Technical Consultant*

*January 2023 - June 2023*

- Developed custom technology solution for internal workflow automation to develop LOD 400 from design docket reducing the time taken from 1 week to under 1 day using IFC
- Developed custom solution for production file from BIM to factory using python and FreeCAD reducing the time taken from 2 hours to under 5 minutes
- Developed algorithms to have rule-based elements in the IFC model without explicit manual modeling enabling delivery faster by at least 25%

- **Ideation Concepts & Design House Pvt Ltd**

*Founder & Director*

*April 2017 - December 2021*

- Designed and managed various portfolio of work in commercial & residential development, including: Hotel, institutional, retail store and residences
- Clients include MNCs, Corporates, Government Institutions & Individuals with multiple repeat customers and references

- **Arvind Lifestyle Brands Ltd**

*Head Projects*

*October 2010 - April 2017*

- Responsible for PAN India retail store design and expansion for various international fashion brands
- Responsible for developing design, project management, managing store layouts, & ensuring brand consistency across 500+ retail stores in India
- Collaborated with the global business team to develop and implement various store design concepts and processes

- **Levi Strauss India Pvt Ltd**

*Assistant Manager*

*July 2007 - October 2010*

- Responsible for store design and expansion for South India region
- Adherence to Global Levi's<sup>®</sup> store design standard

- **Indus League Clothing Ltd**

*Senior Executive*

*September 2006 - July 2007*

- Project coordination for new store opening

- **Ideation**

*Proprietor*

*January 2005 - August 2006*

- Design & Construction firm for Residential & Commercial Interior projects in Bangalore

- **Archaid Architects**

*Structural Engineer*

*June 2002 - December 2004*

- Responsible for Structural engineering for all the projects
- Onsite construction coordination & working out Bill of Materials

## EDUCATION & CERTIFICATION

- **Advanced Certification in Computational Data Science**

May 2021 - May 2022

*Indian Institute of Science, Bangalore*

Course comprising: Computational data science, Machine learning, Neural networks

- **Graph Machine Learning**

February 2022 - April 2022

*Stanford Online*

Course comprising: Graph neural networks, Representation learning, Knowledge graphs

- **B.Tech - Habitat Engineering & Construction Management (Civil Engineering)**

September 1997 - November 2001

*Cochin University of Science & Technology*

## DECLARATION

I, *Arun Kanakkassery Vijay*, do hereby declare that the content stated above are true.

Place: Bangalore

Date: 26/05/2024