ROSHNA VAKKEEL
Junior Full Stack Software Developer

vakkeel.roshna@gmail.com • +0049 17680599495• Berlin
LinkedIn • GitHub • Portfolio

Executive Summary

I am a passionate Junior Software Developer with a Diploma in Full stack Software Development and Bioorganic Chemist with 10+ years of research and interdisciplinary project management experience. Possessing transferable skills such as effective communication, interpersonal skills, team-work, diligence, composure and patience, I aspire to be a bridge between Science and Tech. Now, I am eager to gain entry into the tech industry into an exciting development team where I can develop and contribute my unique creative, problem-solving, interpersonal and critical thinking skills.

Education

Sep 2022–Mar 2023	**Diploma in Full Stack Software Development** Specialization: Advanced Frontend Code Institute - Dublin, Ireland (Credit: University of West of Scotland)
Aug 2007–Apr 2014	**Doctor of Philosophy (PhD)** in Chemistry National Chemical Laboratory (NCL), Pune, India
Aug 2005–Jun 2007	**Masters of Science (MSc)** in Organic Chemistry University of Pune, India
Aug 2002–Jun 2005	**Bachelors of Science (BSc)** in Chemistry Abeda Inamdar College, University of Pune, India

Technical Skillset

Programming Languages:	**HTML5, CSS3, JavaScript, Python**
Libraries/Frameworks:	**React, Django, Bootstrap, React-Bootstrap, Django-REST, Pandas**
Database Technology:	**Postgres-SQL**
Communication Protocols:	**APIs, REST, HTTP, JSON** (Data Format)
Development Workflow:	**Git** (Version control), **GitHub** (Hosting), **VSCode** (IDE , Editing), **Heroku** (PaaS, to deploy and manage apps), **Markdown** (READMe texts)
App Development Platforms:	**Mendix** (SaaS, low-code platform to develop mobile/web apps) (**MENDIX** *Rapid Developer Certification*, No. **37687** – 3rd July 2022)
Web Design Tools:	Chrome DevTools, Lighthouse, Balsamiq, Lucidchart

Portfolio projects

- **Be Inspired -** A social media App to connect people to spread positivity through their inspirations.
  Technologies Used - HTML5, CSS with React-Bootstrap, JavaScript, React (Front End) and, Python, Django-REST framework (Back End) along with Heroku for hosting website.
  GitHub: https://github.com/RoshnaVakkeel/be-inspired-pp5-ci

- **Little Learner's Lab Logs -** A website for kids to explore and create activity logs of fun experiments.
  Technologies Used - HTML5, CSS with Bootstrap, Python, Django framework, Postgres-SQL DB, Cloudinary for media management, Heroku for hosting website.
  GitHub: https://github.com/RoshnaVakkeel/Little_Learners_Lab_Logs
- **myLab Data Manager –** A lab chemical inventory parsing and searching software.
  Technologies Used - Python, Pandas Library and Heroku for hosting website.
  GitHub: https://github.com/RoshnaVakkeel/myLab_Data_Manager
- **Chem Meets Codes –** Computational chem evolution vs programming languages – A comaprison.
  Technologies Used - HTML5, CSS3.
  GitHub: https://github.com/RoshnaVakkeel/Chem_Meets_Codes
- **Chem Around Us –** A quiz based on chemistry that surrounds us.
  Technologies Used - HTML5, CSS3, JavaScript.
  GitHub: https://github.com/RoshnaVakkeel/Chem_Around_Us

Work and Research Experience

Jul 2014–Nov 2018 **Post-doctoral Research Associate**
Max-Planck Institute for Polymer Chemistry, Mainz, Germany &
INM – Leibniz Institute for New Materials, Saarbrücken, Germany.

- Gained technical expertise on experimentation, analysis, data collection and further studies. Maintained safety data sheets for chemicals, synthesized compounds etc., and GMP guidelines.
- Supervised and trained PhD, project students and CTAs.
- Preparation of budget proposals for projects, procurement of material and management of inventory
- Collaborate and co-ordinate meetings with cross-functional experts from various scientific disciplines
- Prepare SDS, SOPs for laboratory instruments, and follow good laboratory practices
- Writing, editing, and proofreading scientific manuscripts following scientific writing guidelines
- Handle scientific structure elucidation software - ChemDraw, PyMOL, MERCURY (crystal structure), Molecular modelling techniques - Schrödinger software.
- Presented in several national and international conferences - 12 poster and 5 oral presentations.
- Published manuscripts in high impact journals - 13 publications in WILEY-VCH, ACS, RSC, journals with a total of over 490 citations, including *Nature* (IF: 49.96). As Author Name: Roshna V. Nair. https://scholar.google.com/citations?user=uJ58rfgAAAAJ&hl=en

Voluntary Activities

- **Guest Editor, Gels, MDPI (***Nov 2021–Present***)** Special Issue (SI) on "*Functional Hydrogels for Biomedical Applications*" (*https://www.mdpi.com/journal/gels/special_issues/functional_hydrogels_biomedical)*
- **Reviewer -** *Journal of Food and Drug Analysis (Sciencedirect), Nutrition (Elsevier)* since 2015

Additional Information

- English (Native), German (Intermediate), Hindi (Native), Malayalam (Native)
- Career Gap: Nov 2018 – Nov 2021: Motherhood, German course and Pandemic.
- Special Interests: Music, learning languages, Yoga, travelling, intercultural events
- Enrolled in EdX's CS50's Web Programming with Python and JavaScript and creating new Apps.

Berlin, June 23