



ALAN RICH

FRONT END DEVELOPER

CONTACT

☎ 07 45 64 16 17

✉ rich.alan@proton.me
<https://alanrich.dev>

📍 56 Rue Riquet
31000, Toulouse France

COMPETENCIES

- Programming Languages
 - Javascript/Typescript
 - CSS
 - GraphQL
- Frameworks/Libraries
 - React
 - MUI
 - Redux
 - Next.js
- Testing & QA
 - Jest
 - Cypress E2E
- Development Tools
 - Nx
 - Git
 - NPM
 - Jenkins
- Architecture/System Design
 - Configuration-driven systems
 - Domain Object Modeling

LANGUAGES

- English (Maternal Language)
- Français (B1)

PROFILE

As a front-end developer with five years of professional experience, I have worked extensively maintaining and debugging large-scale, configuration-driven systems. My recent role at Research Innovations Inc. involved resolving complex UI bugs within a framework powered by thousands of configuration files, demonstrating my ability to navigate highly abstracted systems. With an established record of remote work for U.S.-based companies in the national security sector, I bring adaptability, technical proficiency, and a self-driven attitude, capable of delivering results when the stakes are high and success is critical.

WORK EXPERIENCE

- **Research Innovations Inc.** 2022 - 2024
Software Engineer II
 - Used JS, TS, React & MUI to optimize front-end components, ensuring scalability and maintainability within a large Nx monorepo.
 - Facilitated interaction between front-end components and underlying data models housed within domain-specific objects that encapsulated both data and business logic.
 - Founded and lead a book club for Front End Devs to foster continuous growth and learning.
 - Performed daily code reviews, always seeking opportunities to delete code.
- **OC Tanner** 2021 - 2022
Software Engineer
 - Collaborated with UI/UX designers to implement user-centric designs, ensuring a smooth and engaging experience for end users.
 - Developed intuitive and responsive web interfaces using Javascript and React to optimize the user experience across various devices and screen sizes.
 - Utilized GraphQL to efficiently fetch data from APIs, ensuring real-time, dynamic updates and improved performance.
- **Upwork** 2019 - 2021
Freelance Web Developer
 - Applied modern ES6+ features and React hooks to simplify state management, enhance reusability, and maintain clean, scalable codebases.
 - Integrated RESTful API endpoints to dynamically render data, improving application efficiency and user engagement..

INTERESTS

- Pilates / Running
- Wild Camping
- Russian, Indian, Greek Literature
- Classical Philosophy
- Burning Man
- Interrailing
- Neoclassical Art
- French Comedy
- Byzantine History

OTHER WORK EXPERIENCE

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|----------------------|----------------------------------|-------------|
| • Technical Writer | Upwork | 2015 - 2019 |
| • Research Assistant | Illinois Institute of Technology | 2013 - 2014 |
| • Organic Chemist | Nestle (Chicago) | 2012 - 2013 |

EDUCATION

Bachelor of Science Benedictine University **2004 - 2008**

Thesis: "A One-Pot Asymmetric Robinson Annulation in the Organic Chemistry Majors Laboratory", *Journal of Chemical Education*, 85 (2008) 1531-1534, DOI:10.1021/ed085p1531

Cours de Civilisation Française de la Sorbonne **2009 - 2010**

Language and French civilisation studies through a program administered by La Fondation Robert de Sorbon and charged with enhancing the influence of French civilisation throughout the world.

Illinois Institute of Technology **2013 - 2014**

I was briefly enrolled in a doctoral program but decided that academic research was not my calling. During my studies, I performed genomic analysis of human colorectal cancer cells affected by microsatellite mutations in the BaxΔ2 gene.

Alliance Française de Toulouse **2023**

Cours Intensif de Langue Niveau B1

PEER REVIEWED & INVITED PRESENTATIONS

Asymmetric Organocatalysis: Conjugate Addition Reactions & Robinson Annulations **2008**

Science and Sociability Seminar, Benedictine University, Lisle Illinois

Synthesis of Organocatalysts for Asymmetric Robinson Annulations **2008**

235th ACS Spring National Meeting Division of Chemical Education, New Orleans, Louisiana
Poster ID: 1163539

Asymmetric Catalysis in the Undergraduate Research and Teaching Curriculum **2007**

233rd ACS Spring National Meeting Division of Chemical Education, Chicago, Illinois

Reactivity and Enantioselectivity of Chiral Imidazolidinone Organocatalysts in Asymmetric Robinson Annulations **2007**

233rd ACS Spring National Meeting Division of Chemical Education, Chicago, Illinois
Poster ID: 659