

# Chicory Roth

chicoryroth@gmail.com

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## EXPERIENCE

### Elekta

Software Development Engineer

March 2025 – Present

San Jose, CA

- Develop and maintain Elekta One and MOSAIQ oncology information systems using C++, C# and .NET, ensuring reliability and usability in clinical settings.
- Revamped and upgraded internal script used by teams worldwide, decreasing run time by 70%.
- Conduct code reviews to ensure adherence to coding standards and design practices while documenting designs, requirements, and implementation details.
- Contribute to Jenkins CI/CD pipelines and write unit and integration tests to maintain code quality in a regulated medical software environment.

### CK Technologies Inc.

Software Engineer

December 2023 – March 2025

Camarillo, CA

- Developed user interface components and feature enhancements for Windows desktop applications utilized in the aerospace sector, using C++, C# and .NET, focusing on improving user experience and application performance.
- Converted large C++ project to be Unicode compliant to allow sales in countries using different character encoding. This resulted in a sale to China, the largest ever company sales order.
- Assisted in the automation of test data generation and the enhancement of engineering processes, aiming to streamline operations and improve the accuracy of aerospace product testing.

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## EDUCATION

### University of California - Santa Cruz

B.S. Computer Science

June 2023

Santa Cruz, CA

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## PROJECTS

### HTTP Server - C, Linux

Developed a distributed HTTP server capable of handling GET and POST requests across multiple servers. Implemented advanced concurrency control with threading and mutexes to safely manage simultaneous connections, enhancing scalability and reliability in high-traffic environments.

### SlugSell - TypeScript, Next.js, PostgreSQL, Git, Jest

Led a six-member team in creating an online marketplace in an Agile environment, utilizing Next.js for server-side rendering, TypeScript for type safety, and PostgreSQL for database management. Employed Git for version control and issue tracking, ensuring complete code coverage through automated tests.

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## SKILLS

- Languages: C / C++, C#, Python, Bash, JavaScript / TypeScript, Java
- Technologies: React, Next.js, Git, Docker, SQL, AWS, Jenkins