

# Harold Camacho

## Software Engineer

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### Professional Experience

2024/10 – present Remote, Canada & U.S.	<b>Creator, Software Engineer</b> <i>Splinter splinter-app.github.io</i> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Developed Splinter, an open-source pipeline that simplifies ingesting and processing unstructured data for AI/ML workflows.</li><li>Architected ephemeral AWS-based infrastructure to activate compute resources only during data ingestion, eliminating idle-cost overhead and improving cost efficiency.</li><li>Implemented an event-driven system to enable real-time document processing, where changes at the data source instantly trigger document additions, updates, or removals in vector databases. Improving data freshness and accuracy in knowledge bases.</li><li>Built the entire pipeline infrastructure using AWS CDK for fully automated deployments and teardowns. Reducing manual configuration by 100%.</li><li>Optimized AWS Fargate performance by creating lightweight Docker images and refining resource allocations, boosting efficiency by 70% and reducing ingestion time for a 2.2 MB PDF from 3.5 minutes to 1 minute.</li><li>Integrated non-AWS document stores like Dropbox into the pipeline using DynamoDB, Lambda, and API Gateway, ensuring secure connectivity and a seamless user experience for document ingestion and management.</li><li>Built an Observability Dashboard using React, and AWS WebSocket API Gateway for real-time ingestion insights, powered by AWS Lambda and DynamoDB.</li><li>Developed a RAG Sandbox chatbot that validates ingested data by dynamically interacting with the database.</li><li>Authored comprehensive technical case study, readable at <a href="#">splinter-app.github.io/case-study</a> <a href="#">🔗</a></li></ul>
2024/05 – 2024/07 Remote, Canada & Mexico	<b>Freelance, Software Engineer</b> <i>Cibera</i> <ul style="list-style-type: none"><li>Developed Recobra Crédito, a financial analysis tool to streamline credit, financial, and sales study processes for a Cibera client, improving analyst efficiency and decision-making speed.</li><li>Implemented a robust backend using C#, ASP.NET <a href="#">🔗</a> MVC, Entity Framework, and PostgreSQL, reducing data access complexity and improving maintainability.</li><li>Built comprehensive data models, DTOs, and controllers to support complex credit calculations and financial reporting, ensuring accurate insights for business stakeholders.</li><li>Designed and integrated PostgreSQL databases with Entity Framework, enabling efficient, stateful data tracking.</li><li>Developed React and Ant Design-based front-end components to create intuitive dashboards, improving user satisfaction and reducing training time.</li></ul>
2022 – present Toronto, Canada	<b>Software Engineer</b> <i>Open Source Projects</i> <ul style="list-style-type: none"><li>Created open-source projects to strengthen development fundamentals:</li><li>RequestBin Clone: tool for collecting and debugging webhooks (Digital Ocean, Nginx, PostgreSQL, MongoDB, Node.js, Express, React)</li><li>Simple Active Record ORM: Designed a Ruby-based ORM following Active Record principles for streamlined database interactions. (Ruby, PostgreSQL, PG)</li></ul>

### Education

2021 – 2024	<b>Software Engineering</b> <i>Launch School</i> <a href="#">🔗</a> Multi-year, mastery based software engineering curriculum. Read more at <a href="#">launchschool.com/employers</a> <a href="#">🔗</a>
2014 – 2019	<b>Bachelor of Music BMus</b> <i>Humber College, Toronto, ON</i>

### Skills

<b>Languages &amp; Frameworks</b> Ruby, JavaScript, TypeScript, Python, Node.js, Express, Handlebars, Sinatra, React, ASP.NET <a href="#">🔗</a> , C#.	<b>Cloud</b> AWS CDK, EC2, ECS, Lambda, S3, Batch, DynamoDB, API Gateway.	<b>Other Technologies</b> PostgreSQL, MongoDB, Pinecone, Docker, Nginx, Digital Ocean, Git/Github, RESTful API's, Linux, Bash, Trello.
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