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First Last
portfolio.com

linkedin.com/in/firstlast
github.com/firstlast

Education

College University B.S. Computer Science, GPA: 3.9/4.0	Sep 2017 – May 2022 City, STATE
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Skills

Programming Languages: TypeScript, JavaScript, Python, Java, SQL
Tools & Frameworks: Git, React, Redux, Next.js, Express.js, Jest, HTML/CSS, PostgreSQL, Vim

Work Experience

Company 1 Software Engineer Co-op	Jan 2021 – Aug 2021 Remote
<ul style="list-style-type: none">Led effort to migrate dynamic web marketing material to a content management system, successfully eliminating engineering time spent manually updating 14-18 instances of material per monthConstructed Zendesk and Jira Service Desk API integrations and internal web tools in PHP, TypeScript, and React to streamline customer support engineer workflows that process 100s of customer tickets per dayImproved developer experience for a Node.js permissions service by creating useful abstractions for rule composition, simplifying testing patterns in Jest, and contributing to underlying open source rules engine library	

University Software Consultancy Software Developer	Sep 2020 – May 2021 Remote
<ul style="list-style-type: none">Developed features for a university course planning web application using Ruby on Rails, TypeScript, and ReactModeled course schedule data in TypeScript, wrote logic for validating course requirements, and implemented React components to display interactive course plans to usersWrote a Node.js script to automatically parse university course documentation into JSON for internal usageProvided technical mentoring to teammates on tasks through routine pair-programming	

Company 2 Software Engineer Co-op	Jan 2020 – Aug 2020 City, STATE
<ul style="list-style-type: none">Demonstrated technical growth starting with no Scala, TypeScript, or web development experience to becoming an active contributor to a Scala with Cats backend and a TypeScript with React/Redux frontendBuilt front-end user flows and interactions according to designer specifications with TypeScript, React, HTML, and CSSSurfaced API endpoints in Scala to persist millions of rows of user data in a PostgreSQL databaseReduced manual effort for internal analysts and external users to modify advertising campaign targets by implementing a CSV bulk upload API and batch modification job in Scala, used 12 times per day on average	

Projects

Random Audio Player <i>TypeScript, Node.js, Fastify, React, TailwindCSS, NGINX, Docker</i> github.com/firstlast/project1	2022
<ul style="list-style-type: none">Created a full-stack web application for demoing and downloading random sounds fetched from the Freesound APIDeployed application frontend, backend, and NGINX reverse proxy to Railway using Docker	
TheNeedleDrop Review Dataset <i>TypeScript, Node.js, Fastify, YouTube Data API, PubSubHubBub</i> github.com/firstlast/project2	2022
<ul style="list-style-type: none">Implemented a Node.js script to fetch and parse metadata from the YouTube Data API in order to generate a CSV dataset of a popular music critic's video music reviews for use in data analysisAutomated real-time updates to a hosted dataset using a PubSubHubBub server deployed to DigitalOcean via GitHub	
Compiler for Python-like Language <i>OCaml, C, x86 Assembly</i> Closed Source	2022
<ul style="list-style-type: none">Wrote a compiler backend in OCaml and a C runtime for a Python-like expression-oriented languageSupported dynamically-typed values including numbers, Booleans, tuples, strings, and first-class functionsManaged program memory with mark-and-sweep garbage collection and register allocationWrote over 600 unit tests and end-to-end tests to ensure correctness of compilation using OUnit	