

Charles Eugene Loubao

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Experience

Software Engineer

February 2022 - Present

Department of Natural and Environmental Control - State of Delaware

Tech stack: HTML, CSS, JavaScript, TypeScript, React.js, Angular.js, C#, Visual Basic, .NET Core, [ASP.NET](#), ArcGIS, SQLServer

Promoted from Associate Software Engineer to Software Engineer. (See below)

Responsibilities

- Supporting critical systems used by DNREC employees and Delawareans
- Providing customer service and fixing issues reported by DNREC employees
- Bring new ideas to senior teammates and managers to modernize applications and promote the use of best practices
- Taking requirements from managers and turning them into fully working products as teams or solo projects
- Integrating external systems such as ArcGIS and OnBase into applications

Notable achievements:

- Migrated an old application frontend to React.js and backend from [ASP.NET](#) to .NET Core and migrated from a homegrown authentication system to OAuth2 using Okta.
- Advocated the use of modern frontend and backend technologies such as React, .NET Core, and Okta
- Onboarding associate software developers
- Built and supported public-facing applications used by hundreds of thousands of Delawareans

Freelance Full Stack Developer

January 2021 - Present

Upwork.com and Professional Network

Tech stack: HTML, CSS, JavaScript, React.js, Next.js, TypeScript, PostgreSQL, MySQL

I work with entrepreneurs and teams to build custom software based on their needs.

Responsibilities

- Turn rough ideas into technical requirements, project scope, and estimate timelines.
- Turn custom Figma designs (when available) to code using React and TailwindCSS.
- Implement frontend, backend, and database for the project

Notable achievements

- Currently working on a SaaS using managed Kubernetes in the cloud to provision VMs on demand at scale
- Worked on SaaS as a backend engineer that ended up getting acquired.

Associate Software Engineer

November 2019 - February 2022

Department of Natural and Environmental Control - State of Delaware

Tech stack: HTML, CSS, JavaScript, React.js, Angular.js, C#, Visual Basic, .NET Core, [ASP.NET](#), ArcGIS, SQLServer

Responsibilities

- Supporting critical systems used by DNREC employees and Delawareans
- Providing customer service and fixing issues reported by DNREC employees
- Bring new ideas to senior teammates and managers to modernize applications and promote the use of best practices
- Taking requirements from managers and turning them into fully working products
- Integrating external systems such as ArcGIS and OnBase into applications

Notable achievements:

- Designed and built an internal API used by all products that interact with our ArcGIS systems
- Supporting a critical consumer-facing application used by Delawareans every day
- Introduced React.js to the team and advocated the use of modern .NET tools

Education

Associate Degree - Computer Information Systems

January 2015 - June 2018

Delaware Technical Community College

Earned a degree and took classes in the following subjects

- Object-oriented programming
- Web development
- Database design and administration
- Windows and Linux Operating System Administration
- Information Security