

D. Ben Knoble

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[Testimonials](#)

Primary Languages & Technologies

- Python, Go, JavaScript, TypeScript, Node.js, SQL, Shell, Rust, C
- AWS Cloud ([Certified Solutions Architect](#)), Docker, Jenkins
- Postgres, Snowflake, Clickhouse

Work Experience

Capital One

2021–Present

Principal Engineer, Slingshot

- Co-led development of tier-1 technical support team and model
- Helped retain key client contracts by resolving customer issues promptly and clearly
- Stabilized core product (*e.g.*, self-service SSO migration, tools & norms, architecture)

Software Engineer, Case-as-a-Service

- Supported real-time case data streaming for analysts (5M cases/mo., 90M events/hr.)

Software Engineer, Internal Streaming Platform

- Automated support tasks for real-time streaming platform (2M messages/sec.)

Intern (2020), Payments processing

- Stress-tested systems with chaos engineering

Open Source Developer

Contributor to:

- Git core and ecosystem, Racket compiler and ecosystem, Homebrew, Vim, Dracula
- Moderator at [Vi & Vim StackExchange](#) (2020–2025)
- Work-related libraries and ecosystems

Independent projects:

- Frosthaven Manager, Vim support for Racket

Additional Languages & Technologies

- Racket, Clojure, Scala, SML, Coq, Prolog, Dafny

Additional Experience

Lojic Technologies

2024–Present

Contractor, Full-stack

- Delivered complex features across a full-stack web application for volunteer management, complete with login, permissions, backend data, and scheduled jobs

Nuage Networks (Nokia)

Summer 2020

Software Engineering Intern, Infrastructure & DevOps

- Cut build time by 65% by parallelizing builds and caching artifacts based on Git

UNC Chapel Hill

2016–2021

M.S. in Computer Science.

- Thesis: [On the State of Verified Programs Research](#)

B.S. in Computer Science, B.A. in French, Minor in Mathematics. **GPA: 3.96.**

- Thesis: [Early Prediction of Autism Spectrum Disorder at 12 months of Age from Brain Morphometry](#)
- Honors societies: Phi Beta Kappa, Pi Delta Phi

Teaching Assistant

- Courses: Programming Languages, Compilers, Computer Organization

Honors

- Black belt in Tang Soo Do (2015)
- Eagle Scout (2016)
- Jacques Hardré Chancellor's Award (2020)