

Derek Curry

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EXPERIENCE

HCL Technology | *Go, Echo, Kubernetes, GCP, Docker, PostgreSQL, API* May 2023 – May 2024
Software Engineer Intern Cary, NC

- Developed a service for querying Kubernetes cluster usage across environments to reduce overhead where possible, using Prometheus, Docker, and GCP, alongside another intern
- Designed and developed an API for creating managed CloudSQL Instances with configurable automated backups for a product team
- Designed and developed a generic dependencies API for Kubernetes cluster Helm dependencies
- Communicated with different teams to resolve issues and gather information, collaborated with colleagues
- Used various GCP managed services and tools for development and troubleshooting
- Initially summer internship, received extension for fall semester, then spring semester

EDUCATION

North Carolina State University August 2021 – May 2025
Bachelor of Science in Computer Science, Minor in Mathematics Raleigh, NC

- Major GPA 4.0
- Cumulative GPA 3.93
- Dean's List
- Accelerated Master's in Computer Science intent

TECHNICAL SKILLS

Languages: Java, C/C++, Go, JavaScript, HTML/CSS

Frameworks: Kubernetes, Bootstrap, Node.js, Angular, JUnit, PostgreSQL, RESTful, Apache, OpenAPI, Helm

Developer Tools: Git, Docker, Eclipse, Google Cloud Platform, VS Code, Visual Studio, Linux, JetBrains Tools

PROJECTS

Blockchain Transaction Processor | *Go, MongoDB, HTML/CSS, RESTful API* February 2022 – March 2022

- Allowed users of a service to pay for a selected product using cryptocurrency
- Implemented RESTful API endpoints for communication
- Associated users with transactions in MongoDB, verify transactions securely, and generate license keys
- Built into a full stack website selling cryptocurrency trading software with additional features

Pathfinding Visualization | *Go, WebAssembly, HTML, CSS, JavaScript* July 2022 – August 2022

- Browser based pathfinding visualization using Dijkstra's Algorithm in Go
- Used WebAssembly and shared memory to communicate with JavaScript frontend for efficient processing
- Object-Oriented design with thorough error checking and handling for a reliable application

RELATED COURSES

- Architecture of Parallel Computing (Master's), Automated Learning and Data Analysis (Master's), Operating Systems, C and Software Tools, Software Engineering

EXTRACURRICULAR

Tesla Rebuild June 2022 – June 2023

- Purchased a crashed Tesla Model 3 to repair and learn how EVs are designed
- Great exercise in problem-solving – resolved body, mechanical, electrical, and software problems with little to no information or proper tools
- Sparked interest in reverse engineering the car computer after learning about all of the systems it manages

Eagle Scout August 2016 – August 2021

- Planned a community project – fundraising, creating design plans, procuring materials, and leading a group to create eyeglass collection boxes to place around the town of Apex
- Planned community clean up projects, provided supplies, and oversaw safety and risk management