

Derek Curry

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EXPERIENCE

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- 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
 - Modified existing endpoints to use a unified resource stored in a database for a simpler interface
 - Communicated with different teams to resolve issues and gather information, collaborated with colleagues
 - Used various GCP managed services and tools for development and troubleshooting

EDUCATION

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- 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

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- 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 to communicate with JavaScript frontend for efficient processing
- Automated Cryptocurrency Trading** | *Go, GoEthereum* November 2021 – February 2022
- Automatically purchase and sell cryptocurrencies
 - Implemented configurable indicators and concurrency for faster trading

RELATED COURSES

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

EXTRACURRICULAR

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- 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