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CS student with work experience, interest in programming language theory, and an entrepreneurial attitude

Skills

- **Programming since 2011** average of 1000 lines of code per week
 - **C/C++: since 2011** (C++20, GDB, valgrind, threads, boost, GMP, libfence, cmake, makefile, QT, etc.)
 - **JavaScript: since 2014** (node, typescript, d3, webgl, threejs, express, WASM, react, etc.)
 - **Python: since 2013** (flask, pandas, pip, multiprocessing, textblob, etc.)
 - **WebAssembly: Created a language that compiles to WASM**
 - **HTML+CSS+JS: since 2010, created 15+ websites**
 - **Limited others:** Haskell, MIPS Assembly, BASH, AutoHotkey, POV-Ray SDL
- **Technical Skills:** Linux, AWS, REST, SQL, Web Scraping, RSS, LaTeX, HTTP
- **Software:** Excel, wings3d, SketchUp, OBS, git, bash, vim, screen, kdenlive, etc.
- **Using Arch Linux as primary OS since 2015**
- **Foreign languages:** English, Spanish (conversational), Danish (literate)
- **Hobbies:** Aquaculture (planted tanks), CAD/CG, Video Editing, Metal Casting, Investing (options, stocks, etfs)

Formal Experience

- **CAEMate: Software Developer (2020.6-2020.12)**
 - Hired through freelancing site Upwork.com
 - Helped tackle a large codebase spanning 5 years of development
 - I mostly worked on the 3D editor for westatix.com
 - Technologies used: JavaScript, WebGL, Webassembly, jQuery, C/C++, Linux, Docker, Git, Threejs, MVC, etc.
- **StrattyX Inc.: Senior Software Engineer (2019.4-2019.12)**
 - **They came to me** with a name, a logo and a dream to democratize algorithmic trading
 - **I led development** of company's software products with several developers working under me
 - I chose to create a distributed language system to power the company's product
 - Pitched Company at **TechCrunch 2019** where we were finalists: youtu.be/EPGDluEqQxQ
 - Spent summer of 2019 building out product at **Harvard Innovation Lab**
 - Skills used: Startups, Marketing, PM, SWE, AWS, MySQL, Node.js, React Native, Python, React.js, Linux, PLT, REST, investing, NLP, AI, etc.
- **Programming Lead For IIT NASA Robotic Mining Competition Team (2019-2020)**
- **IIT CS TA (2019)**
- **Macon-Bibb Board of Education Technology Intern (2016-2018)**
- **Programming Lead for Bibb County FRC Team 4941 (2014-2018)**
- **Small Business Owner, Elemental Designs (2012-2014)**
 - Re-cast scrap metal from old electronics into jewelry
 - Several thousand dollars in gross revenue

- Recognized by Macon Telegraph as Youngest seller in Macon Arts Gallery
- Volunteer at Mercer Creative Computer Camps (2016-2018)

Personal Projects

I always have projects in addition to my normal work and studies. Here are a couple examples:

Programming Languages (2016-Present)

- Postfix Haskell: github.com/dvtate/postfix-haskell (2020-2021)
 - Functional, postfix language that compiles to WebAssembly
- SCL: github.com/dvtate/SCL (2020)
 - Traditional Syntax, Compiles to bytecode, Tracing GC, Closures, Async Event-loop, etc.
- YodaScript: postscript inspired, general-purpose language
 - github.com/dvtate/yodascript (2019)
 - github.com/dvtate/old-yoda (2016-2018)

Corki Bot - corki.js.org (2018-2020)

- Discord automation chatbot with 200k+ users
- Running on home-server with almost no required maintenance
- github.com/dvtate/corki

Education

Illinois Institute of Technology: 2018-2021*

- Heald Scholar, 2018 Dean's list
- Computer Science Major
- In addition to being a full time student, I've also been employed, developed personal projects with increasing scale, and filled leadership roles in student organizations

Howard High School, Macon, GA.: 2014-2018

- 3.9 GPA Top 5%, 11 College-level classes
- Highest average: AP Computer Science, AP World History, AP Chemistry

Assorted Links:

- Some Websites I've made: corki.js.org, robobibb.github.io, dvtate.com, github.com/dvtate/old.dvtate.com, me.dvtate.com
- Chat Bots: github.com/dvtate/corki, github.com/dvtate/steve, github.com/dvtate/mew2_bot
- Arduino Projects: github.com/dvtate/trophy, github.com/dvtate/led_driverstation, github.com/dvtate/maze-game, github.com/dvtate/led_cart, github.com/dvtate/RTTT