THEO KALFAS

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EDUCATION

Grinnell College   *May 2018*
B.S. in Computer Science (GPA 3.4)
B.S. in Mathematics (GPA 2.9)
Overall GPA: 3.16

LANGUAGES

Greek	Native Speaker
Serbian	Native Speaker
English	Fluent Speaker
Spanish	Professional Working Proficiency

WORK EXPERIENCE

Grinnell College   May 2017 - Present
Software Developer, Researcher   *Grinnell, IA*
· Primed research on Chemical Reaction Networks (CRNs) and their robustness in a team of 4 students, led by Prof. Titus Klinge.
· Developed an IDE for modular CRN development in Java.
· Led the team to use of many design patterns, interfaces, and general program structure.
· Produced an API supporting various implementations of CRN simulation.
· Submitted a position paper about the IDE and its modular molecular programming capabilities to a science conference. Paper is still under review.

Grinnell College   January 2017 - May 2017
Web Developer   *Grinnell, IA*
· Developed and maintained the CS department email archive.
· Worked with a team in an Agile environment, arranged biweekly client meetings.
· Produced a Ruby-on-Rails driven website, backed by a SQL database, following SaaS principles.
· Handled a large portion of the site backend and routing.

Grinnell College   August 2017 - Present
Web Developer   *Grinnell, IA*
· Maintained and completed 3 student-led community projects for the Greater Poweshiek Community Foundation.
· Documented an existing codebase for better development.
· Produced extensive rspec testing suites.

PROJECTS

hanoi	A small, but fast-growing terminal GUI library for Go. Designed for extensibility and performance. In active development.
Snake Neural Net	A project exploring Haskell's application in Neural Networks. Specifically, a neural network that evolves using a genetic algorithm to learn how to play snake.
ceramic	A quick text editor in C, based on antirez's kilo.

TECHNICAL STRENGTHS

Programming Languages	Go, Haskell, Java, Scheme
Essentials	C, Git, *nix Systems, HTML, LaTeX
Scripting	bash, Fish, Python, Perl
Databases	MySQL, SQLite
Tools	vim + tmux, JetBrains, wasm