Everette Rong

E-Mail: i@rongyi.io
Github: @LER0ever

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https://rongyi.blog/en/contact
777 University Ave, Lucky Apt 939A, Madison, WI

Education

- **University of Wisconsin - Madison** — Madison, WI
  Computer Science, B.S. — *Fall 2016 - expected Spring, 2019*
  - Courses Taken: Machine Learning; Operating System; Compiler and Language Design; Computer Graphics and Game Development; Algorithms
  - Current Major GPA: 3.885 / 4.0
- **University of Wisconsin - Madison** — Madison, WI
  Applied Mathematics, B.S. — *Fall 2016 - expected Spring, 2019*
  - Courses Taken: Calculus I, II, III; Probabilities; Linear Algebra; Differential Equations; Linear Systems; Analysis I; Modern Algebra I
  - Current Major GPA: 3.903 / 4.0

Research & Contests

- **Dyninst Project** — https://www.dyninst.org
  Researcher, guided by Prof. Barton Miller and Dr. Meng — *September 2018 - current*
  - In the Dyninst research group, we use Paradyn toolkit to do Binary Analysis and Dynamic Instrumentation
  - Dyninst can be used to optimize the bottlenet of Parallel Computing, and to improve execution efficiency using dynamic binary instrumentation
- **ACM/ICPC** — Madison, WI
  Participant this year, Team $O(Y^3)$ — *October 2018 - current*
  - I'm participating in this years ACM ICPC (International Collegiate Programming Contest)
  - In our university's own Placement Test, I got the **first place** among all the participants in UW-Madison this year. (I solved 5 Intermediate-Hard questions in 5 hours individually)
  - My ICPC team $O(Y^3)$ consists of the top three in the UW-Madison placement test

Projects & Work Experience

- **EverVim** — Github: LER0ever/EverVim
  Creator and Main Developer — *November 2016 - current*
  - Started the project back in 2016 mainly because I wanted a powerful while easy-to-use text/code editor, and has now become a full-featured Vim distribution (or IDE if you like).
  - Now the project has gained over `447 stars` and `59 forks` on Github, and is one of the most popular Vim distributions there.
- **Project Israfil** — Github: LER0ever/Israfil
  Creator and Developer — *Summer 2016*

  - My attempt to solve the music copyright problems in Mainland China. Because to the nature of "exclusive copyright", each music provider only gets a portion of music resource that barely overlap with other providers', therefore users in China need to have several music apps on their computer in order to listen to the songs they like. This project tried to solve that problem by implementing the API of most of music providers in one platform so that music lovers can just use one app to get all the songs they want.
  - Israfil is written in C++/Qt, QML and Golang
  - The project received `120+ stars` and `30 forks` on Github during that summer.

- **UW-Madison CSSA** Madison, WI
  Main Web Developer *October 2017 - current*
  - Joined UW-Madison Chinese Students and Scholars Association (CSSA) as the only web developer for the new website.
  - Currently in charge of designing and maintaining the website and writing news articles for the organization. The website is live at `https://cssawisc.com`

- **Portus Web Engine** Proprietary Website Backend Framework
  Creator and Developer *Fall 2015 - current*
  - A website engine I wrote in Golang that supports both dynamic web pages and static site output. It has been deployed to power several websites, like the CSSA's website, my own homepage and blog, a note-sharing website, etc.

Achievements and Awards

- **National Olympics of Informatics (NOIP 2014): First Prize.** `NOIP is an algorithm contest, like ACM/ICPC but for high school students in China.`
- **Top 100 new open source software of 2017 on OSChina: My `EverVim` was voted to be the 43rd.**
- **World Genius Directory: Listed in WGD as $IQ \geq 150, SD = 15, \sigma >= 3.33$ in 2018**
- **Fall 2017 UW-Madison Dean's List: I was named to the list for Fall Semester of the 2017-2018 Academic Year**

Skills

- **Computer Science:** General Desktop App Development, Web Backend, Distributed Systems, Unix Architecture
- **Tech Stack:** C/C++, Go, Rust, Node.js, Linux, Git, Vim
- **Math X CS:** Algorithm Design, Machine Learning, Differentiable Programming

Interests and probably my next research topic

- Differentiable Programming and Deep Learning
- Decentralized Networking