ARTIN GHASIVAND

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1 Preface Letter

Dear reader,

Thank you for taking the time and effort to read this.

I graduated from high school two years ago, which was two years after I wrote my first "hello world" in Python and a year after I started my Haskell journey. I fell in love with functional programming so much that I decided it would be worthwhile to take a gap year to self-study and get a job. So that's exactly what I did.

After some time, I realized that I wasn't satisfied with my job and that I would love to dedicate all of my time to functional programming and programming language theory. Following this decision, I decided that I wanted to work directly on GHC and try to fulfill my wish of adding Dependent Types to it. Coincidentally, about six to seven months later, I found out that the Haskell Foundation was holding a workshop prior to Zurihac to help Haskellers get involved in the development of GHC. With the help of HF (David Thrane Christiansen) and Zurihac organizers (Farhad D. Mehta), I was able to attend both of these events.

During the workshop, I met Simon Peyton Jones and asked him for ways to get involved in the theoretical side of things, which resulted in Simon Peyton Jones, Richard Eisenberg, and me collaborating on our current research project—a specification for GHC's type system. This project has been the main focus of my life since then.

I also decided that it was time to enroll in university and got accepted to Durham. Unfortunately, I haven't been able to find a funding source that would let me accept the offer yet.

I believe that attending PLMW/ICFP is the next step to becoming a good researcher and helping me decide which university I will apply to next year. However, due to inflation and the incredibly high cost of international travel, I won't be able to do it by myself. This is why I would appreciate it if you, the reader, consider this application, despite the fact that I am not enrolled in university yet.

Best wishes,

Artin Ghasivand

2   CV

EDUCATION

Mandegar Alborz High School *December 2022*
Diploma in Mathematics & Physics
Member of Biology Olympiad class

EXPERIENCE

Cryptal Global June 2022 - December 2022
Junior Developer *Dubai, UAE*

· Automation bots in Python
· DevOps and Linux Administration

PROJECTS

Blueprint (WIP): Inline outgoing call-hierarchies in functions using the GHC-api
https://github.com/Ei3ometry/blueprint

Hygeia (WIP): A CLI program to keep track of your moods
https://github.com/Ei3ometry/Hygeia

TECHNICAL STRENGTHS

Programming Languages	Haskell, Agda, Emacs Lisp, Python, C
Other Languages	LaTeX, ott
Tools	Git, Emacs, Nix, Docker