Thien Hoang | Curriculum Vitæ

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Education

- **Vietnamese–German University** — **Binh Duong, Vietnam**
  Computer Science, Software Engineering and Information and Technology — *2017–present*
- **Ly Tu Trong Gifted High School** — **Can Tho, Vietnam**
  Vietnam National High School Graduation Examination — *2016–2017*

Skills

- **Programming Languages:** C/C++, Python, Java, JavaScript, Pascal, Shell, TeX.
- **Technology:** Git, GitHub, CGAL, Jekyll, Jupyter Notebook, RESTful API, Heroku, Adobe Illustrator, Meshlab, Doxygen.
- **Language Proficiency:** Vietnamese (*native*), English (*IELTS 7.5*), German (*limited*).
- **Other skills:** Documentation Writing, Template Metaprogramming, Front-End Web Development.

Awards and Honours

- **Vietnam Olympiad of Informatics** — **by MoET**
  2nd Prize, Ranked #34 — *2017*
  An annual competitive programming contest held by the Ministry of Education and Training of Vietnam for high-school students to select representatives for the International Olympiad of Informatics (IOI).
- **The April 30 Olympiad of Informatics** — **by HCMC DoET**
  Gold Medal, Ranked #6 — *2016*
  An annual competitive programming contest held by HCMC's Department of Education and Training for Southern-Vietnamese high-school students.

Activities

- **Google Summer of Code** — **CGAL Project & Google LLC**
  Student Developer — *2018*
  An annual program in which Google awards stipends to all students who successfully complete a requested free and open-source software coding project during the summer. During this program, I worked with CGAL (Computational Geometry Algorithms Library) to create the module "Generalized Region Growing", which is part of the Shape Detection package.
- **PiMA Summer Camp** — **HCMC, Vietnam**
  Mentor — *2017*
  The program aiming at teaching high-school students how to apply mathematics to real-life problems. In the summer camp, I mentored a group of three students on the project "Evaluate biomedical devices", using Python to analyze data and LaTeXto present the report.

- **Google Code-in** **Google LLC**
  Student Developer *2016*

  An annual programming competition hosted by Google Inc. where pre-university students complete tasks specified by various, partnering open source organizations. During this program, I mainly worked on two projects, namely the FOSSASIA GCi Website and the Susi Bot.

Notable Projects

- **Generalized Region Growing** (*Maintainer*): A CGAL component that implements the region growing algorithm for shape detection. The algorithm has been generalized to be working with any user-defined elements, connectivity method, and validity checking rules.
- **Free Contest** (*Junior System Admin* and *Problem-setter*): A weekly IOI-like competition for Vietnamese students, held by a small group of enthusiastic programmers.