Thien Hoang | Curriculum Vitæ

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Education

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

Skills and Interests

- **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*).
- **Research interests:** Graph Theory, Computational Topology, Computational Geometry, Linear Algebra.
- **Other skills:** Documentation Writing, Template Metaprogramming, Front-End Web Development, Competitive Programming.

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.
- **VGU Merit Scholar** — **by VGU**
  75% and 50% scholarships — *2017-2019*
  Honorable receiver of the Vietnamese-German University's merit scholarship during the academic years 2017-2018 (75% tuition fee) and 2018-2019 (50% tuition fee).

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. My work was supervised by Dr. Dmitry Anisimov from INRIA.

- **PiMA Summer Camp** — **in 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 LaTeX to 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.