

# YIFAN MEN

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## EDUCATION

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**Duke University**, Durham, NC 12/2019(Expected)  
*Master of Engineering in Electrical and Computer Engineering, GPA: 3.90/4.00*

**China University of Geosciences**, Beijing, China 06/2018  
*Bachelor in Software Engineering, GPA: 3.91/4.00*

## COMPUTER SKILLS

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**Languages:** C/C++, Swift, Java, J2EE, Python3, Shell, SQL, HTML/CSS/JavaScript, Visual Basic .Net, ASP.Net  
**Others:** Linux, Git, Emacs, Vim, Slack, Docker, Markdown, LaTeX, VPN  
**Personal Technical Blog:** <https://menyifan.com>

## INTERNSHIP

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**Facebook, Inc** Menlo Park, California  
*Software Engineer Intern in News and Feeds Org* 05/2019–08/2019

- **Development Language:** C/C++, Objective C.
- Implemented a photo-related feature that serves all Facebook app iOS users around the world.
- Developed a new branch on existing complicated Machine-Learning-model-based infrastructure.
- Engineered the infra results to product in a user-friendly way and made it open for internal test.
- Proposed and developed an internal debugging tool to surface infrastructure results in app rather than debugger.

**Institute of Automation, Chinese Academy of Sciences** Beijing, China  
*Research Assistant Intern in National Laboratory of Pattern Recognition* 10/2017–06/2018

- **Development Language:** C++.
- Proposed a robust algorithm to compute *Centroidal Voronoi Tessellation* with better valence results, improving the rate of regularity points up to 95% with fewer iterations compared to other methods.
- Implemented *Centroidal Voronoi Tessellation* computation algorithms conducted by other computer graphics papers, and made result comparisons with our methods.
- Tested the effectiveness and efficiency of the *Clip-Tetrahedron-By-Cell Algorithm* based on TopoPolyMesh structures.
- Academic Publication: *Improving Regularity of the Centroidal Voronoi Tessellation*. In ACM SIGGRAPH 2018 Posters. DOI: <https://doi.org/10.1145/3230744.3230796>.

## PROJECTS

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**FoodPin App**, Individual Project Beijing, China  
*iOS Application Freelance Developer* 07/2018–08/2018

- **Development Language:** Swift 4.
- Analyzed the requirement and prototyped the early model referring to Yelp and other apps.
- Separated the concerns into MVC pattern, designed classes and held restaurant information with Core Data, displayed various information like location and rates, and controlled data transmission during segues.
- Designed interface, created animation and visual effects to improve the user experience.

**Online Food Court**, China University of Geosciences Beijing, China  
*Team Leader* 04/2017–06/2017

- **Development Language:** J2EE.
- Led weekly group meetings and discussed the functionality of different layers from a top-down perspective.
- Ported templates from Bootstrap website to use on the food court website.
- Connected to remote MySQL Database with Java Database Connectivity (JDBC) and implemented the base classes of Data Access Object(DAO) so that CRUD operations can be executed on the remote database. Created servlets for different actions to extend the capabilities of a remote server, ran unit and performance tests using JUnit framework to expose potential bugs and errors.
- Drew Use-Case Diagram, Class Diagram, Architecture Diagram and other diagrams in OOAD principle to demonstrate the different aspects of the system.

## CONTEST & AWARD

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- ACM International Collegiate Programming Contest, Asia Regional, Bronze 10/2016
- China National Scholarship 11/2015