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Megan Chang

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EDUCATION

University of California, Santa Barbara – Mechanical Engineering, M.S. (GPA: 3.7) *June 2017*
University of California, Santa Barbara – Mechanical Engineering, B.S. (GPA: 3.5) *June 2015*

SKILLS

- Computer (Advanced): Matlab, Python
- Computer (Intermediate): SQL, Java, Flask, SQLAlchemy, Linux, Solidworks, HTML, API
- Languages: English, Spanish

PROJECTS

- HeyPal** - www.heygal.fun *June 2017*
- Completed Udacity Full Stack Nanodegree in order to learn how to execute my idea for a social network app that suggests fun activities in your local area
 - Designed and built my vision for HeyPal using Python Flask web development, PSQL database queries, a Linux server host, and Google Maps and Foursquare APIs
 - Integrated map feature with markers/ info windows to display a venue's website, phone, and photos
- UCSB Master's Thesis** (Emphasis: Computational Physics) *April 2017*
- Developed an efficient 1st order accurate MATLAB code to effectively simulate complicated dendritic crystal growth (the Stefan problem) on irregular domains
 - Implemented the level-set method and Ghost-Fluid methods to achieve sharp interface tracking
 - Used 3rd order extrapolation and Weighted Essentially Non-Oscillatory schemes to handle advection with higher order accuracy and reduced dispersive waves

EXPERIENCE

- UCSB Engineering Teaching Assistant, Class Section Leader** *Jan 2016 – Jun 2017*
- Created and delivered weekly lecture to section classes (20-25 students)
 - Directed weekly office hours to provide extra one-on-one help to students
- Advanced Vision Science (AVS), Head Intern – Process Engineering** *Jun 2014 – Oct 2014*
- Led engineering study (first intern to do so) that became the most successful study of 2014 by improving lens yield by over 10% after discovering hidden trend in yield data
 - Pitched what became the biggest engineering study of 2015 after discovering opportunity to increase yield by over 15%
 - Served as engineering/operations liaison to improve productivity by influencing the work culture and bridging the gap between R&D, management, and operations
- UCSB Orientation, Academic Advisor** *Mar 2013 – Aug 2013*
- Orientated over 8,000 new students and their parents to UCSB
 - Participated in panels for hundreds of parents, offered fun tours of campus/college town, and gave engaging safety and academic presentations to incoming students

HONORS

- Won **"Most Marketable"** for Junior Design Project: table made of grids to be reconfigured (i.e. from square to L-shape) like Tetris for consumers in tight living spaces
- Received two **UCSB Technical Writing Excellence Awards** (one for "Dodonpa" Wikipedia article which receives 3,000 views monthly)
- **President** of Geek Week Committee - organized 2nd annual UCSB College of Engineering competition (involving obstacle courses, scavenger hunt, kickball, etc.)