



# BOON JIA SHEN

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## EMPLOYMENT

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Software Engineer	Woven by Toyota	March 2022 - Present
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Supporting Toyota's autonomous driving initiative

- Tech lead of 4 engineers, building storage layer to deliver continental-scale maps to Toyota
- Organized 300 TB of orthoimage data and made it accessible to internal developers

Software Engineer	Amazon Japan	May 2019 - March 2022
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- Built an ETL pipeline that publishes search terms of 2B+ products a day worldwide
- Enabled blocklisting support that blocklists 2B+ search terms a day in Amazon Search

Software Engineer	Amazon.com	June 2016 - May 2019
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- Enabled multi-language support in Customer Q&A for 12MM+ customers in four marketplaces.
- Launched "Have a question?" widget on the detail page, to 500MM+ widget loads a day.
- Built data collection stack that logs 4MM+ search requests daily to a data warehouse.

Research Assistant	University of Wisconsin-Madison	Summer 2015
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- Conducted research in unmanned aerial vehicles. Supervised by Prof Michael Coen.

Teaching Assistant	University of Wisconsin-Madison	Fall 2014 - Spring 2016
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- CS570 Introduction to Human-Computer Interaction (Spring 2016)
- CS534 Computational Photography (Fall 2015)
- CS367 Introduction to Data Structures (Fall 2014, Spring 2015)

Research Engineer	Defense Science Organization, Singapore	Aug 2011 - Aug 2014
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Autonomous capabilities of autonomous underwater vehicle

- Developed obstacle detection and classification algorithms. Python, C++
- Developed vehicle speed optimization algorithm to determine optimal speed in-mission. MATLAB

## EDUCATION

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Madison, WI	University of Wisconsin-Madison	Fall 2014 - Spring 2016
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- MS in Computer Science, GPA: 3.94
- UW-Madison CS Graduate Summer Research Assistantship 2015
- UW-Madison Special CS Scholarship 2014

Singapore	National University of Singapore	Fall 2007 - Spring 2011
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- BEng in Mechanical Engineering, 1st Class Honors, Dean's List (4 semesters), CAP: 4.65/5

## ADDITIONAL PROJECTS

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- **The case for visual-inertial SLAM over visual SLAM** (2016). Master's project
  - **M. Beyeler. *OpenCV with Python Blueprints*** (2015). Packt Publishing. Invited book reviewer.
  - **Robust image retrieval using topic modeling on captioned image data** (2015). Crawled imgur for over 32K images and 110K captions. Modeled images and captions with LDA and a deep CNN. MATLAB

## LANGUAGES

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- Java (proficient), Python (proficient), Javascript (proficient), MATLAB (proficient)