Internship and UCSD life

You-Yi Jau   Date: 09/29/2019

Outlines

- About me/ Journey in UCSD

- Research Intern

- Tips

  – Why do I fail the interviews

  – Amazon Interview

  – Communication with Professors

- Takeaways

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About me

- Education
  - M.S. in Electrical and Computer Engineering, UC San Diego (UCSD)
  - 2018 B.S. in Electrical Engineering, National Taiwan University (NTU)
- Experience
  - 2019 Research Intern @ Autodesk San Francisco (Pier 9)
  - 2019 Research Assistant, Teaching Assistant in UCSD
  - 2018 Research Intern @ Inventec AI center
  - 2016 Software Development Intern @ Dell
  - 2016 President of Aboriginal Service Club
- Honors
  - 2017 Altuistic Award (NTU)
  - 2017 MakeNTU Enterprise Awards, Best Popularity Award (NTUEE)
- Hobbies
  - Jogging, tennis, hiking, reading
- Website: https://eric-yyjau.github.io/
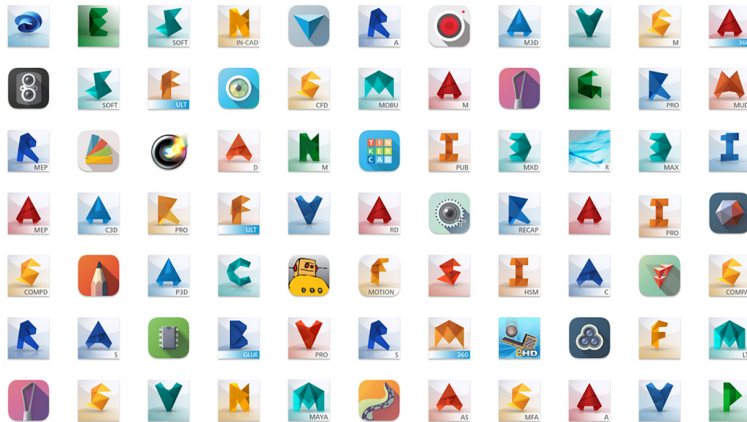
Journey in UCSD

- Research
  - Joined Hao Su's lab in Oct. 2018
  - Started project with Rui Zhu (PhD student), Manmohan (Prof.)
  - Topic: Localization (SLAM), deep learning
  - Funded by Prof. Manmohan and Prof. Su in winter 2019
  - Resumed the project in fall 2019
- Internship
  - Rejection (Oct. 2018 – Apr. 2019): Trifo, WeRide.ai, TuSimple, BrainCorp, Adobe, Tesla, Fetch Robotics, Peanut Robotics
  - Offer: Amazon (mid Mar.), Autodesk (early Apr.)

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Autodesk

AUTODESK.
Make anything.

- Autodesk makes software for people who make things

- Employees: 9,500

- Products: 100 up

- Revenue: 2.6B (FY19)

- Architecture, Engineering & construction
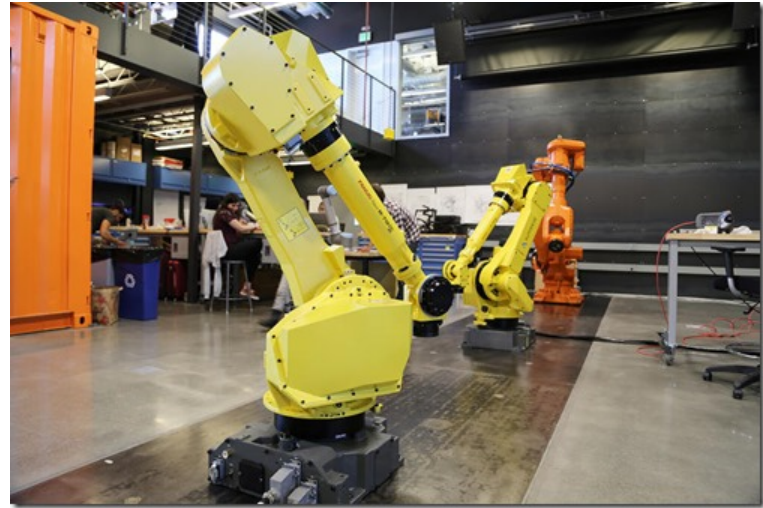 - AutoCAD, and Revit

- Design & Manufacturing
  - 3D printing, machining

- Media & Entertainment
  - Maya, 3ds Max:
  - Inception, Iron Man 2, Avatar

AUTODESK.
RESEARCH

Autodesk Research

- CTO: Scott Borduin
- Around 200 people
- AI Lab (& robotics)
  - ~10 people
  - ~30 people working related to AI
- Location
  - San Francisco (Pier 9)
  - Boston
  - Toronto
  - London
  - …

- Residency program
  - Partner with startups/ school

Our team

Nelson Nauata Junior

Ph.D. student

Computer Science

Simon Fraser University

You-Yi Jau

M.S. student

Electrical and

Computer Engineering

UC San Diego

Kai-Hung Chang

Research Scientist

AEC Industry Future

Autodesk Research

Mehdi Nourbakhsh

Principal Research

Scientist

AEC Industry Future

Autodesk Research

Chin-Yi Cheng

Principal Research

Scientist

AI-Lab

Autodesk Research

Takeaways from You-Yi

- Work
  - Lab lifestyle
  - Whiteboarding
  - LUMA training
  - Intern talks: meet VPs, CEO
  - Intern hangouts
- Life
  - Jogging
  - Tennis
  - Exploring the bay area

AUTODESK
RESEARCH

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Why do I fail the interviews

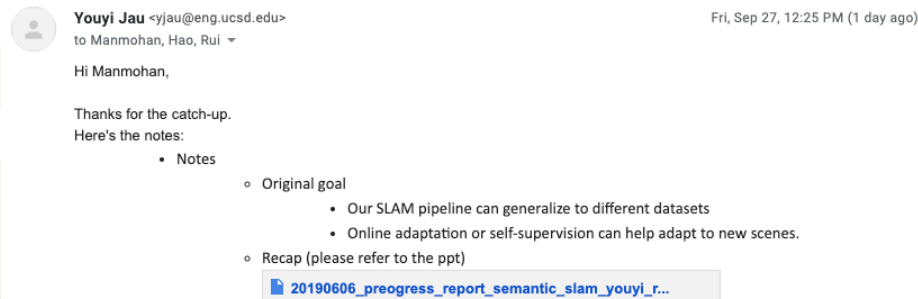| Company	Time	How	Interviews	Why fail/ pass
Fetch Robotics	Oct.-Nov. '18	Referral	1 Phone	Communication, interests not match
TuSimple	Oct. '18 Mar. '19	Career fair, Online	1 phone	ML statistical problem, ML coding problem
BrainCorp	Oct.-Nov '18	Referral	1 skype	c++ 11, python pointers
Peanut Robotics	Jan.-Feb. '19	Email CV	1 phone	Will you join startup afterwards?
Tesla	Feb'19	Referral	1 phone	Object detection loss function
Adobe Research	Feb.-Mar.'19	Reach out	1 skype	No publication
WeRide.ai	Mar. '19	Referral	1 HR + 2 phone	Basic recursive leetcode
Amazon	Mar. '19	Referral	1 OA + 1 skype	Communication
Trifo	Mar. '19	LinkedIn	1 skype	Don't know..
Autodesk	Mar.-Apr. '19	Referral	1+2phone+1skype	Research project

Amazon Interview

- Position: Software Development Engineer (SDE)
- Process: 1 online assessment, 1 skype interview
- Tips
  - No python (c++, java ok)
  - Database-oriented problems
  - Skype interview
    - Intro (3-5 min.), Coding (30 min.), Q&A (10 min.)
  - Walk through the code with the interviewer

Communication with Professors

- Ask for research opportunity
  - Email your interests and CV
  - Ask PhD students
  - Walk in during office hour
  - Start early: many student start from 2nd quarter
- Ask for resources
  - Desktop/ Monitor
  - Funding
- Ask for advice
  - Advice during my internship

- Keep the professor updated
  - Meeting, notes, progress
  - absence for vacation

- Some ideas:
  - https://medium.com/@eric.yyjau/what-is-the-main-parts-as-a-master-student-7a984b494a05

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Takeaways

- Research
  - Talk to the professor, keep the professor in the loop
  - Invest time to your research project
- Internship: computer vision and robotics
  - **Accumulate the highlights for CV during the first quarter**
  - Prepare for interviews:
    - leetcode
    - CV basic problem (CSE252C)
- Be brave, be confident.