

Yu Chang Ou

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EDUCATION

Union College, Schenectady, NY

Bachelor of Science in Computer Engineering

Jun 2019

Senior Capstone: Built a robotic arm and created a closed-loop PID system controller utilizing control theory and mechanical robotic system design.

Term Abroad: Cross-sectional study on healthcare systems, technologies, and impacts on public health in the US, Canada, UK, and Netherlands.

Brooklyn Technical High School, Brooklyn, NY

Jun 2015

TECHNICAL SKILLS

Python, Java, C/C++, MATLAB, JS, HTML/CSS, SQL, Cloud Platform Development (Amazon Web Service, Salesforce, Google Cloud Platform), Artificial Intelligence, Machine Learning, Data Analytics (TensorFlow, Tableau, scikit-learn, pandas, Keras), Robot Operating System (ROS), 3D Modeling/CAD, Hardware Prototyping, VHDL, Assembly, Microcontroller Programming, Adobe Creative Cloud Suite, Agile Project Management

WORK EXPERIENCE

Accenture: Philadelphia, PA

Application Development Analyst

Jul 2019 – Present

- Lead development teams in the Accenture Rapid Product Engineering (RPE) Lab, work closely with client account leadership team and venture partners to form strategic partnerships, and deliver innovative proof-of-concept solutions to meet client needs.
- Ideate, solution, architect, and manage application development lifecycle, conduct data analytics, market research, and requirements gathering.
- Contribute as a full-stack engineer: leverage hardware background to pioneer efforts in prototyping IOT, develop cloud-based applications utilizing AWS and Salesforce, create front-end UI for webapps and set top box applications, and serve as scrum master for Agile sprints.
- Certified in Salesforce Administrator and App Builder. Pending Salesforce Platform Developer 1 and AWS Developer – Associate certification.

Veteran Affairs Department: Virtual Student Federal Service

Computer Programmer Intern

Sep 2018 – Jan 2019

- Assisted in development and improvement of *eScreening*; a self-reported mental and physical health screening with automated real-time scoring.
- Tested software implementations, managed versioning and release, and resolved tickets to update and improve application functionality.

Stanley Black and Decker: Towson, MD

Innovation Engineering Research Intern

Jun 2018 – Aug 2018

- Led an Artificial Intelligence and Machine Learning project, conducted strategic business analysis, developed steps for future adoption and implementation, and delivered a demo chatbot prototype. Led secondary project on Nanomaterials, performed feasibility study of incorporating new materials into current manufacturing techniques and conducted sample market and sales analysis.
- Won the first Stanley Intern Innovation Challenge by prototyping and marketing a durable IOT soil moisture sensor to work with SBD water pump.

Union College MakerWeb Consortium: Schenectady, NY

Emerging Technology Specialist

Sep 2016 – Jun 2019

- Consulted students and faculty on use of Makerspace technology and provided training for 3D scanner/printers, lasercutter, and equipment library.
 - Contributed design inputs, evaluated and fixed 3D print/lasercut requests, organized educational programs, and assisted student research projects.
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RESEARCH EXPERIENCE

Union College, ECBE Department: Schenectady, NY

Student Researcher

Sep 2017 – Jun 2019

- Researched motion planning strategies and pathfinding algorithms in a map-less environment for autonomous vehicle navigation. Designed and programmed robots to autonomously traverse a 9' x 9' maze in a timed race. Developed an easily replicable and optimized robot prototype at 33% the cost of a traditional build. Competed in the annual IEEE Brown Micromouse Competition and the Princeton Robotics Competition.
- Served as the first female president of the robotics competition team. Incorporated Agile (Kanban) Project Management, initiated use of version control, and rigorous documentation. Established a supportive mentoring network to retain underclassmen and women engineers.

Kevin G. Langan School, Center for Disability Services: Albany, NY

Research Project Liaison for SWE

Nov 2018 – Feb 2019

- Spearheaded the project as a project liaison to set up meetings with clients and patients and worked closely with a team of women engineers to create low-cost mobility aide alternatives for children. Strengthened partnership between the Union ECBE department and the local community.
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LEADERSHIP ACTIVITIES

Accenture Young Professional Actions Team: *Professional Development Committee*

Jan 2020 – Present

Accenture Women's ERG: *Networking Committee*

Aug 2019 – Present

Engineering Ambassador: *President*

Sep 2015 – Jun 2019

Union College Robotics Crew: *President*

Sep 2017 – Jun 2019

Alpha Phi Omega (National Service Fraternity): *Vice President of Membership*

Sep 2017 – Jun 2019

Society for Women in Engineering: *Public Relations Officer*

Sep 2015 – Jun 2019