

# Yu Chang Ou

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## WORK EXPERIENCE

### **Accenture: Philadelphia, PA**

*Application Development Senior Analyst*

*Jul 2019 – Present*

- Develop 11 proof-of-concept applications and products to create novel customer experiences. Spearhead product innovation using cloud (AWS), full-stack development, hardware/IoT, artificial intelligence (NLP/robotics), and computer aided design/3D printing to create rapid prototype demos.
- File 1 patent solution streamlining application communication. Contribute to open-source development to build and improve RDK software stack.
- Lead and manage teams of 3-6 onshore development resources. Coordinate planning, architecting, development and releases with Agile/SCRUM.
- Secure \$20 millions in funding from diamond telecommunication clients through emerging technology demos to augment R&D initiatives and thought leadership capabilities. Collaborate with account leadership team and C-suite client executives to form strategic partnerships and seize technology to drive growth. Help clients uncover value, meet business needs, and create impact through data analytics and market research.

### **Veteran Affairs Department: Virtual Student Federal Service**

*Computer Programmer Intern*

*Sep 2018 – Jan 2019*

- Developed and improved *eScreening*; implemented features to enable automated scoring for self-reported mental/physical health screening.
- 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 AI/ML project, conducted strategic business and data analysis to develop steps for an intelligent marketing campaigns using AI chatbots to promote products based on browsing habits. Led second project on Nanomaterials, performed feasibility study and market analysis for incorporating new materials into products and improve durability of components used in mission-critical systems. Presented findings to Chief Technology Officer.
- 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, ECBE Department: Schenectady, NY**

*Student Researcher and Union College Robotics Crew President*

*Sep 2017 – Jun 2019*

- Designed and programmed first successful robot to autonomously traverse a 9' x 9' maze in a timed race. Reduced cost of robot prototype by 66%.
- Researched motion planning strategies and pathfinding algorithms in a map-less environment for autonomous vehicle navigation.
- Served as the first female president of the robotics team. Implemented new organization structure, effective communication channels, agile rapid prototyping, version control, and documentation. Established mentoring network to retain 95% of minorities and women engineers within the team.

### **Union College MakerWeb Consortium: Schenectady, NY**

*Emerging Technology Specialist*

*Sep 2016 – Jun 2019*

- Consulted students and faculty on Makerspace technologies and provided training for 3D scanner/printers, laser cutter, and equipment library.
- Evaluated 3D print and laser cut requests, contributed design input, organized educational programs, and assisted student research projects.

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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.

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## TECHNICAL SKILLS

Python, Java, C/C++, MATLAB, JS, HTML/CSS, Cloud (Amazon Web Service, Google Cloud Platform, Azure), Salesforce, Artificial Intelligence (Robotics, Natural Language Processing, Chatbot), Machine Learning, Data Analytics (TensorFlow, Tableau, scikit-learn, pandas, Keras), AV/VR, Robot Operating System (ROS), 3D Modeling, CAD, IoT/Hardware Prototyping, VHDL, Assembly, Unity3D, Adobe Creative Cloud, Agile Project Management

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## LEADERSHIP ACTIVITIES

**Accenture Young Professional Actions Team: Professional Development Committee**

*Jan 2020 – Present*

**Accenture Ventures: Open Innovation Northeast Ambassador**

*Nov 2019 – Present*

**Accenture Women's ERG: Networking Committee Co-Lead**

*Aug 2019 – Present*

**Union College Robotics Crew: President**

*Sep 2017 – Jun 2019*

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

*Sep 2017 – Jun 2019*

**Engineering Ambassador Network: President**

*Sep 2015 – Jun 2019*