

# Arthur Chen

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## EDUCATION

August 2016 - Present	Bachelor's of Arts and Sciences, <b>Rice University</b> , Houston, TX Major: Computer Science Expected Graduation: May 2020
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## WORK EXPERIENCE

May 2019 - August 2019	<i>Full Stack Developer</i> , <b>IBM</b> <ul style="list-style-type: none"><li>Worked on a web-application to configure an IBM algorithm used in nearly all pharmacies in America today.</li><li>Contributed to reducing the time required to configure IBM's algorithm from more than a month to a couple of days.</li><li>Used React, Redux, and Saga for the frontend, and Node/Express with MongoDB for the backend.</li></ul>
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## WORK EXPERIENCE IN OTHER FIELDS

June 2014 - Aug 2015	<i>Undergraduate Research</i> , <b>Stony Brook University</b> <ul style="list-style-type: none"><li>Participated in the Garcia Center for Polymers at Engineered Interfaces research program</li><li>Extensively studied graphene oxide, hydrogen fuel cells, and metal nanoparticles</li><li>Resulting in four publications found in Materials Research Society, Cambridge University Press</li></ul>
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## PROGRAMMING PROJECTS

Aug 2016 - Present	<b>Rice University</b> <ul style="list-style-type: none"><li>Kernel - Implemented an operating system kernel for the Yalnix operating system.</li><li>File System - Implemented a remove file system for the Yalnix operating system.</li><li>ChatApp - A chat program with a personally designed API implemented using MVC's and a visitor design pattern.</li><li>Schlumberger - A UX/UI driven web-application built for Schlumberger.</li></ul> For this project I worked as a front-end developer working with UX/UI engineers from Schlumberger. Our team used React/Redux as our front-end framework.
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## INDEPENDENT PROJECTS

Aug 2016 - Present	<ul style="list-style-type: none"><li>arthurmchen.com - A personal/portfolio website built using ReactJS.</li><li>Lanes.gg (Not Hosted) - A website built using NodeJS and Express for the back-end, with a ReactJS front-end. Also, REST endpoints are used to access a MongoDB database. The website displays match-by-match data regarding a popular video game called League of Legends (<a href="https://github.com/achen1738/lanes.gg">https://github.com/achen1738/lanes.gg</a>)</li></ul>
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## TEACHING EXPERIENCE

COMP 321	Introduction to Computer Systems
COMP 310	Advanced Object Oriented Programming

## RELEVANT COURSEWORK

COMP 430	Intro to Database Systems	COMP 427	Introduction to Computer Security
COMP 425	Computer Systems Architecture	COMP 421	Operating Systems/Concurrent Programming
COMP 412	Compiler Construction - UG	COMP 410	Software Engineering Methodology
COMP 382	Reasoning about Algorithms	COMP 330	Tools and Models - Data Science
COMP 322	Fundamentals of Parallel Programming	COMP 321	Introduction to Computer Systems
COMP 310	Advanced Object Oriented Programming	COMP 215	Introduction to Program Design
COMP 182	Discrete Math and Algorithmic Thinking	COMP 140	Introduction to Python

## SKILLS

Languages	English (native), Chinese (functional), Korean (elementary), Spanish (elementary)
Coding Languages	ReactJS (expert), CSS/SCSS (expert), Javascript (expert), Java (fluent), C (fluent), NoSQL (fluent), T-SQL/Postgres (functional), Python (functional), NodeJS (functional)
Coding Specialty	Web Development - Full Stack Developer