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OBJECTIVE
Summer Internship related to Software Engineering

EDUCATION
Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science in Computer Science, May 2018

RELATED COURSEWORK
Intro to Machine Organization & Assembly Language, Algorithms, Software Engineering, Database Systems I, Computer Networks, Operating Systems, Programming Languages, Intro to AI, Webware, Computer Network Security, Computer Graphics

SKILLS

Web Development	Ruby on Rails, NodeJs, Java Spring, SQL, Restful API Design, Content Negotiation, Entity-relation Diagram, UML, Postgres, Oracle, MySQL, Websocket, Angular 2, React, Responsive Layouts, Regular Expression, AJAX, Reactive Programming, Redux
Mobile Development	Push Notification, Customized UI Components, Content Providers, Delegate, Sqlite
Computer Languages	JAVA, C, C++, Swift, Objective-C, ES6, Typescript, Ruby, Python, Bash
Testing	Unit Testing, E2E Testing, Test Driven Development, Behavior Driven Development
Computer Science	Fundamental Algorithms & Data Structures, Network Security, Operating System Design

PROJECTS
PopMovies, https://github.com/byliuyang/PopMovies, Android Move App, Java, Personal, Nov 2015-Present
Designed and implemented database and unit testings, and implemented HTTP JSON API, local storage, content providers, YouTube preview, responsive layouts

Connect N, https://github.com/byliuyang/connect-n-ai, AI Solving Connect-N Game, Java, Personal, Jan 2016
Designed the UML and the heuristics, and implemented min-max algorithm with alpha-beta pruning

harryHttpd, https://github.com/byliuyang/harryHttpd, Multithreaded Light Weight HTTP Server, C, Personal, Nov 2015
Implemented HTTP protocol, file I/O and optimized concurrency

netGuard, https://github.com/byliuyang/netGuard, DNS Capacity based Multithread DDOS Guard, Python, Oct 2016
Implemented DNS traffic analyzer and IP tables based NAT connection controller

ANN, https://github.com/WPI-CS4341/Artificial-Neural-Networks, An Artificial Neural Network, Python, with one partner, Jan 2016
Designed a neural network and implemented back propagation algorithm to classify data points

Movie Search, http://cs4241-a6-byliuyang.herokuapp.com/README.md, Movie Info website, Nov 2016
Implemented material design and responsive layouts and a ruby on rails like backend framework in Node.js from scratch

EXPERIENCES
UI Designer & Front-End developer, Concordya Inc, Beijing, China, May 2015-August 2015
Design and implement the new homepage for the company, http://byliuyang.github.io/guanplushomepage

Mobile & Backend developer, ASSISTments Lab, WPI, Worcester, MA, Dec 2016-Present
Refactored the iOS App, https://itunes.apple.com/us/app/assistments/id721911528?mt=8, and backend with new interfaces and design patterns, Developed YouTube SDK in Swift and refactored backend

HACKTHONS
UI Designer & iOS Developer, team Knockt, http://knockt.com, at HACK@WPI, Best software award for 2017 season
Designed the UI and interaction for the web app and mobile, and developed an online iOS app with the notification system.

UI Designer, Front-end Developer and API Designer, team Code Etch, http://code-etch.herokuapp.com, at HACK@Brown
Designed the API with RAML, designed user interaction with sketch and implemented the front-end with Angular 4.0 Beta