YAN CHEN

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EDUCATION

Boston University | Boston, MA — Expected May 2022

Bachelor of Science in Computer Engineering (**GPA**: 3.90/4.00; **Honors**: Dean's List, Albert Shanker Scholarship)

Relevant Coursework:	Intro to Operating Systems	Cloud Computing	Intro to Machine Learning
	Applied Algorithms	Intro to Software Engineering	Cybersecurity

SKILLS

Programming: Python, C++, C, TypeScript, JavaScript, Java, HTML/CSS, MATLAB, Verilog
Frameworks: Node.js, Express.js, Django, Flask, Next.js, Vue.js, React.js, React Native, LaTex
Tools: MongoDB, DynamoDB, Redis, MySQL, PostgreSQL, AWS, GCP, Firebase, OpenShift, Kubernetes, Docker, Git, Bash
Certifications: AWS Certified Solutions Architect – Associate (Issued on Aug 2021; Expires on Aug 2024)

WORK EXPERIENCE

Capital One | Richmond, Virginia — Jun 2021 – Aug 2021
Software Engineer Intern
- Digitalized contact center evaluation report containing **2M+** call routing profiles & queues data on **12** contact centers.
- Developed new dashboard on existing architecture to provide real-time service report using **Vue.js**, **Node.js**, and **Redis**.
- Onboarded **AWS Lambda** functions integrating with **DynamoDB** to provide **REST** APIs across company domain.

Open Water Accelerator | New York, New York — Jun 2020 – Aug 2020
Software Engineer Intern
- Created a cross-platform mobile App in **React Native** with **Firebase** database and authentication.
- Implemented more than 33% of the App's core features with **Google Cloud** APIs integration.
- Facilitated with executives of a portfolio company to launch a functional MVP of the App in 2 months.

Gridology Education & Technology Inc. | New York, New York — May 2020 – Aug 2020
Software Engineer Intern
- Redesigned and maintained **REST** APIs in **Django**, updated APIs to streamline **PostgreSQL** migrations.
- Architected and built multiple web crawlers to automate database updates, reducing web crawlers' runtime by 90%.

Hutyra Research Lab | Boston University — Feb 2020 – May 2020
Research Assistant
- Architected and built a web visualization platform to manage and visualize sensor data in real time.
- Implemented **RESTful** APIs using **Node.js**, **Express**, **MongoDB** to provide user authentication and authorization for data management and access.
- Developed real time visualization charts using Chart.js, Socket.io, **HTML/CSS**, Bootstrap, and jQuery.

TECHNICAL PROJECTS

Express Ticketing — May 2021 – Present
- Created scalable **microservices** in **TypeScript** using **Node.js** and **Express** backend framework.
- Built a server-side-rendered **React** frontend using **Next.js** to consume microservices data.
- Orchestrated and containerized **microservices** using **Docker** & **Kubernetes** and deployed to **GCP Kubernetes Engine** for cloud deployment.

CI/CD Pipeline for API Development — Sep 2020 – Dec 2020
- Created API using **Flask** backend, **React** frontend, hosting with **Docker** images on **OpenShift**.
- Constructed a **CI/CD** pipeline using GitHub Actions and Packages and adhere to **DevOps** principles.
- Implemented a **Command-Line-Interface** to automate pipeline setup using Oclif and **Node.js** to create a **one-click-deployment** solution.
- Led a 4-member Agile team as full-stack lead, coordinating with stakeholders from State Street.

LEADERSHIP & ACTIVITIES

Software Engineer, **Hack for Impact** | Boston University — Sep 2020 – Present