

Jonathan Tseng

contact@tsengjonathan.com | (617) 860-8158 | NK8, 150 Huntington Avenue, Boston, MA 02115

Available: May 2020

Education

Northeastern University, Boston, MA

September 2016 - May 2020

Khoury College of Computer and Information Science

Candidate for a Bachelor of Science in Information Science and Minor in Psychology

- Related Courses: Web Development, Networks and Distributed Systems, Software Development, Human-Computer Interaction, Object-Oriented Design, Computer Systems, Algorithms and Data, Database Design
- Honors: GPA: 3.68/4.00, Dean's List

Computer Knowledge and Skills

Languages: Java, JavaScript (React.js, React Native), Python, Ruby

Tools: AWS, Vim, Spring, Jenkins, JetBrains

Methodologies: Agile, Scrum, TDD, Extreme Programming

Databases: PostgreSQL, MySQL, MongoDB

Other: English (Fluent), Mandarin Chinese (Fluent)

Work Experience

InsightSquared, Boston, MA

July 2019 - Present

Software Engineer Co-op

- Develop data visualization interfaces to provide business intelligence for executive personas
- Refactor existing frontend codebases to utilize new React features such as React Hooks
- Implement database locking in Python to prevent race conditions with concurrent API requests
- Revamp product interface by converting design mockups into UI components using Material-UI
- Contribute in a scrum team, involving daily standups, sprint reviews, grooming, and retrospectives

SmarterTravel - A TripAdvisor Company, Boston, MA

July 2018 - December 2018

Software Engineer Co-op

- Created web tools to help marketing analysts launch dynamic ads on partnered sites at scale
- Improved performance of internal websites by reducing HTTP requests and avoiding re-renders
- Developed analyst tools to help identify untouched target audiences and other metrics
- Experimented with migrating existing codebases to serverless technologies such as AWS Lambda
- Redesigned build and deploy processes to production server by integrating with Jenkins
- Streamlined sync processes between production database, site metadata, and business intelligence

Projects

Scout - A Student-Led Design Studio

January 2019 - May 2019

Full-Stack Developer

- Cooperated with entrepreneurs to build proof-of-concept applications from scratch
- Developed a mobile application that helps patients monitor their children's asthma symptoms
- Prototyped a cross-platform mobile application in React Native and Redux
- Built a Python server using Flask and Orator for managing data models and relationships
- Worked with medical professionals to user-test prototypes and evaluate usability requirements
- Collaborated with designers in an agile environment to refine design mockups in Figma

Scout - A Student-Led Design Studio, Boston, MA

January 2019 - May 2019

Full-Stack Developer

- Cooperate with external clients to build projects from scratch throughout the school semester
- Develop and review other developer's code in both frontend and backend development
- Collaborate with designers to find a balance between UI/UX and technical feasibility

Operate under the agile development lifecycle, involving sprints, daily standups, and retrospects

Industrial Technology Research Institute, Hsinchu, Taiwan

May 2018 - June 2018

Research Intern

- Conducted ML research on 3D bounding boxes using Deep Neural Networks (DNN)
- Presented on behalf of research team current development around 3D car and ship detection
- Evaluated quality of training data by running existing DNN models (e.g. ResNet, YOLO, etc)
- Assisted in preliminary research on noisy text analysis using Natural Language Processing (NLP)