Davy Huang

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Technical Skills

Languages: C++ | C | SQL | Kotlin | Java | Rust | Ruby | Go | Python | C# | JS

Development tools: Git | AWS SES | AWS Lambda | Azure | Postman | Node JS | Gitlabs | Teamcity | Jenkins | Bitbucket

Work Experience

Senior Engineer - Veson Nautical - IMOS Platform (June 2019 – Present)

- Developed application software for a Maritime Shipping Platform. Supported web and on-prem workflows that allowed clients to manage over 100 billion dollars in freight contracts.
  - Within deadlines for client commitments and government regulations, delivered API endpoints that allowed data input, back-end driven calculations, and data reporting.
  - Refactored and modernized legacy code to reduce load time on emissions reporting by 82%.
- Lead the design of CO2 Tracking and Pricing modules allowing clients to perform large scale data analysis and visualization on European Union compliance requirements.
  - Navigated ambiguous and developing industry standards to deliver usable and standardized front end tools to track and project emission penalties.
  - Collaborated with cross functional teams to convert client feedback into clear and actionable technical specifications for the development team.
  - Deployed front end and back end features for a large scale system while minimizing downtime and prioritizing data integrity.
- Mentored junior developers and fostered knowledge transfer and continuous improvement.

Software Engineer - Boston Scientific - RHYTHMIA Mapping System (May 2017 – June 2019)

- Developed and maintained software to aggregate cardiac and electrophysiology data during live surgical operations
  - Implemented breadth first search algorithm to flag relevant electrocardio data during live surgeries.
  - Maintained data integrity, patient privacy, and data access on a multi threaded application.
  - Incorporated FDA regulatory and user accessibility requirements into front end features.
- Designed and implemented unit tests for software and hardware compliant with medical device standards.

Research Experience

Research Assistant (September 2014 – May 2017)

- Dr. Haiyan Gong Ophthalmology Department
- Developed methods to analyze cells as a 3D volume utilizing 2D sectional data

Projects

Computer Vision based Door Opener

- Trained an object classifier to identify door knobs and door levers
- Designed a method of detecting and automatically opening doors via a robotic arm

Education

Boston University College of Engineering, Boston, MA (Cum Laude)

- Bachelor of Science - Computer Engineering, 2017
- Bachelor of Science - Biomedical Engineering, 2017
- Coursera, Agile Development and Scrum Certificate