

Alex Chiu

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Rice University 2014

Chemical & Biomolecular Engineering, B.S.
Computer Science, B.A.
3.598 GPA

Skills

Languages: Java, Visual Basic, Objective-C, Python, FORTRAN
Software: Aspen HYSYS, Microsoft Excel, MATLAB, Oracle

Experience

Summer Intern, Albemarle Corp. | Clear Lake, TX

May 2012 – Aug 2012

- Jointly developed automated system from scratch to compile and examine client data for hydroprocessing units.
- Independently diagnosed and resolved accuracy and speed issues when accessing company-wide Oracle database system of catalyst data.

Rice Undergraduate Research | Houston, TX

Jun 2011 - Aug 2011

- Performed research for Drs. George Hirasaki and Clarence Miller related to oil recovery using surfactants under the supervision of Aparna Sagi.

Children's Tutor, Nehemiah Center | Houston, TX

Nov 2010 – Apr 2011

- Tutored and chaperoned elementary school students at after-school program.
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Coursework

Chemical Engineering

Numerical Methods
Kinetics
Transport Phenomena
Thermodynamics
Process Control
Product and Process Design*

Computer Science

Intro to Algorithms
Program Design
Parallel Programming*
Computer Systems*
Mobile Device Applications

* currently enrolled.

Projects

Location-based messaging app for iPhone

Nov 2012

- Utilized Apple push notification system to send GPS coordinates to recipient, who can then view results via map or camera with compass overlay.

Design of extractive distillation oil recovery process

Nov 2012

- Prepared extensive HYSYS simulation to analyze economic and production potential of extractive process for removing CO₂ from crude.