William Chu

309-265-3062
william@wchu.io
wchu.io

Education

2015–2017 **Master of Science: Computer Science**
GPA: 4.0/4.0 Bradley University, Peoria, IL

2011–2015 **Bachelor of Science: Computer Science**
GPA: 3.8/4.0 Bradley University, Peoria, IL

Languages and Technologies

Programming: C/C++, C#
Web: HTML, CSS, JavaScript, jQuery, ASP.NET
Scripting: Lua, Python
Databases: MSSQL, MySQL/MariaDB, Postgres
Versioning: Azure DevOps, Git, GitLab
Platforms: Linux (Debian, CentOS), Windows

Experience

2018– **Senior Programmer Analyst**, *Pearl Insurance*, Peoria, IL
- Development, maintenance, and support of various software systems that support business operations.
  - Internal customer relationship management software.
  - Customer-facing websites for the marketing, application, and servicing of insurance policies.
- Mentor and provide technical expertise to other team members.

2015–2017 **Graduate Assistant: Ciliates.org**, *Bradley University*, Peoria, IL
- Developed websites for the collection and display of genomic data.
- Deployed and managed web applications for the analysis of genomic data.
- Performed analysis on genomic data and published results for public viewing

2014–2015 **Caterpillar**, Peoria, IL
- Developed both web and stand-alone applications.
- Analyzed supply chain performance and provided dashboard metrics
- Developed software to improve efficiency and streamline workflow
  - Manipulating 3d modeling software for analysis
  - Analyzing part compatibility and reusage
  - Automating data collection
- Performed maintenance and fixed issues in software developed by third-party development companies

2013–2015 **Undergraduate Research**, *Bradley University*, Peoria, IL
- Assisted in the research of Wireless Sensor Networks (WSN).
- Performed research on intruder detection in WSNs.
- Developed software for validating theoretical analysis.

Publications

2017 **The Macronuclear Genome of Stentor coeruleus Reveals Tiny Introns in a Giant Cell (Co-Author)**
- PMCID: PMC5659724
- Provided tools for genomic analysis.

2015 **Detection of Intelligent Intruders in Wireless Sensor Networks (Co-Author)**
- DOI: 10.3390/FI8010002
- Performed research intelligent intrusion on Wireless Sensor Networks (WSN).
- Developed and studied pathing algorithms for intrusion into a WSN with both full and zero knowledge of the network.

2014 **Partial Sensing Coverage in 3D Wireless Lattice Sensor Networks (Co-Author)**
- DOI: 10.1109/ICC.2014.6883289
- Performed on the sensing properties of Wireless Sensor Networks in lattice configurations.
- Assisted in equation derivation and simulation-based validation of theoretical analyses.