

# Michael Gill

Results-oriented software engineer with 10+ years of experience in designing and implementing innovative solutions. Passionate about improving team productivity and delivering high-quality code.

## WORK EXPERIENCE

### Senior SW Engineer E5 - Meta | Remote | FEB '22 - Present

#### Senior Software Engineer - Facebook Dating Integrity

- Wrote modular, secure, well-tested code in Python, Hack/PHP, and SQL which is used by millions of daily users.
- Designed and implemented multiple projects that reduced scammer prevalence metrics by 50%.
- Used SQL and Python to create opportunity sizing impact estimates for several projects.
- Led the team to complete Meta Integrity Standards work, ensuring compliance with industry regulations and company policies.
- Quickly established as the go-to reference for Dating Integrity Enforcement systems, providing expert guidance to team members with minimal ramp-up time.
- Proactively managed and resolved several high-priority SEV events while on call, minimizing impact to millions of end-users.
- Led show and tell sessions for Dating Integrity, setting up the events and serving as moderator for discussions.

### Associate Manager SW 4 - L3Harris | Florida | JUN '13 - JAN '22

#### Group Leader - Embedded Communications Department

- Oversaw and guided a team of 7 software engineers in the Embedded Communications Department.
- Cultivated professional development by conducting regular one-on-one meetings, ensuring clear communication of department updates and expectations, performing comprehensive performance evaluations, and actively participating in department performance calibration meetings.
- Collaborated closely with the department engineering manager to evaluate and contribute to the creation of project Basis of Estimates, encompassing high-value financial considerations.

#### Crypto Lead - Modem Software

- Led the effort to successfully integrate legacy modem software with a DevOps workflow in Jenkins, resulting in a 30% reduction in deployment time and improving overall software quality.
- Conducted Independent Verification & Validation (IV&V) of the existing software using Coverity static code analysis, identifying and fixing critical issues to ensure compliance with industry standards and best practices.
- Developed a cryptographic module simulator in C#/ .NET and deployed it

## CONTACT

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## EDUCATION

### University of Florida

Gainesville FL  
B.S. Computer Software  
Engineering, Math Minor  
GPA of 3.64/4.0  
Fall 2009 - Spring 2013

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## SKILLS

- C
  - C++
  - Hack / PHP
  - Python
  - Java
  - SQL
  - Git
  - SVN
  - Mercurial
  - Jenkins
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## INVOLVEMENT

### Harris URock Award

Received a Urock award for playing a role on Tiger Team to diagnose radio failures.

### High School Programming Tutor

Held a lesson for high school students on Android programming.

### UF Programming Team

Placed 25th at South East Regional competition.

on the lab network, enabling efficient testing and validation of cryptographic algorithms and protocols for multiple projects.

### **Chief SW Engineer - Aircraft Software**

- Designed and implemented software to report the operational status of critical components on a backplane assembly to the rest of the aircraft, ensuring safe and efficient operations.
- Led a team of 3 software engineers from project inception through successful software formal qualification testing, ensuring compliance with industry standards and regulations.
- Developed and maintained project plans, schedules, and budgets, ensuring timely and successful delivery of software solutions. Collaborated with cross-functional teams to ensure seamless integration of software and hardware components.

### **Developer - Encryption Software**

- Designed a software full disk encryption solution for use between Windows, Ubuntu, and a proprietary embedded system.
- Improved load procedure from several hours to 60 seconds by automating the encryption and decryption process.

### **Developer - Software Defined Radio**

- Worked on radio waveform to increase radio network communication efficiency.
- Designed and implemented an algorithm which increased packet on time rate to 99.9%.
- Wrote software to integrate a new Inertial Navigation System which significantly reduced system costs, creating a new product option.

## **PERSONAL PROJECTS**

### **Discord Leetcod Bot**

- Created a discord bot in python which can be commanded to retrieve a daily programming problem for users in a discord server.
- Using this bot speeds up the process of posting a programming problem, instead of having to navigate and copy paste, a simple command can be run.

### **Harris Programming Competition**

- Created programming competition for a work contest during Engineering week.
- Wrote competition questions, created example solutions, and generated test input for the contest on my own.
- Integrated with the Codechef platform to host the contest, improving the existing infrastructure used for the contest.